

FIG. 30

REDUCTION OF THE NUMBER OF BITS FOR
RUN-LEVEL ENCODING OF TRANSFORM
COEFFICIENTS OF A BLOCK-CODED PICTURE

PIVOT-1 TECHNIQUE

SELECTIVELY RETAIN NON-QUALIFYING
NON-ZERO AC COEFFICIENTS IN ORDER
TO AVOID ESCAPE SEQUENCES

PIVOT-2 TECHNIQUE

REDUCE THE MAGNITUDE OF THE LEVEL OF
THE RETAINED NON-QUALIFYING NON-ZERO
AC COEFFICIENTS TO A VALUE OF ONE IN
ORDER TO ELIMINATE MORE ESCAPE
SEQUENCES AND TO REDUCE THE NUMBER
OF BITS FOR (RUN, LEVEL) ENCODINGS

PIVOT-3 TECHNIQUE

AVOID ESCAPE SEQUENCES AND/OR REDUCE
THE NUMBER OF BITS FOR (RUN, LEVEL)
ENCODING BY SELECTIVELY INSERTING A
NOISE COEFFICIENT OF LEVEL MAGNITUDE
EQUAL TO ONE (I.E., A PIVOT POINT WHICH IS A
ZERO-VALUE AC COEFFICIENT IN THE
ENCODING OF THE ORIGINAL PICTURE) IN THE
SCAN ORDER JUST BEFORE EACH QUALIFYING
NON-ZERO AC COEFFICIENT

FIG. 33

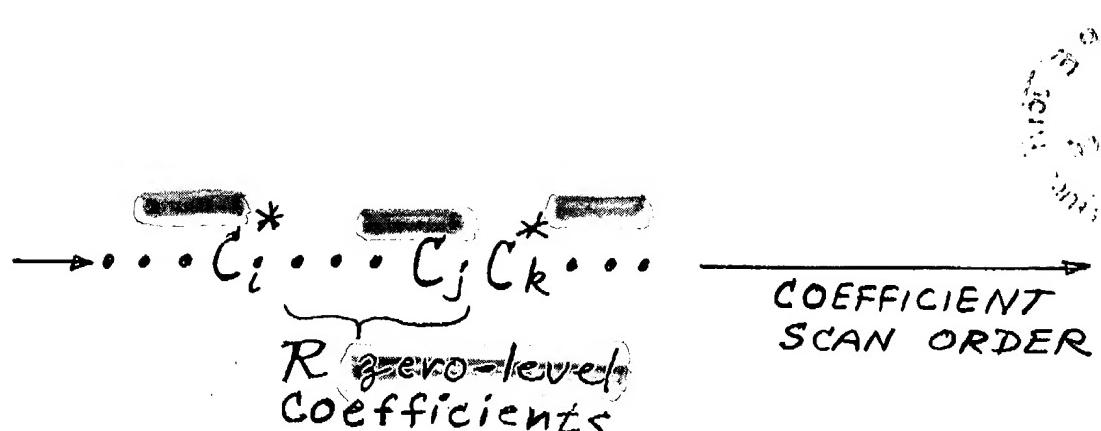


FIG. 36

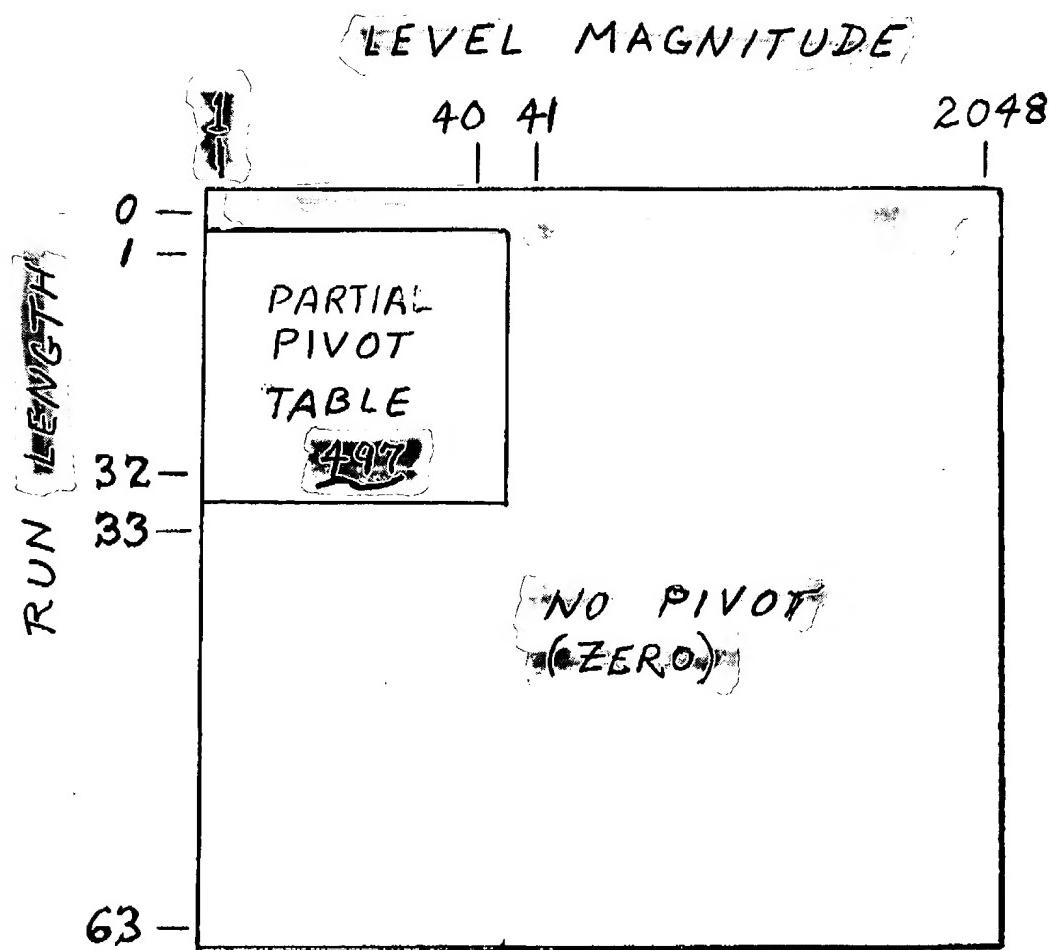


FIG. 37

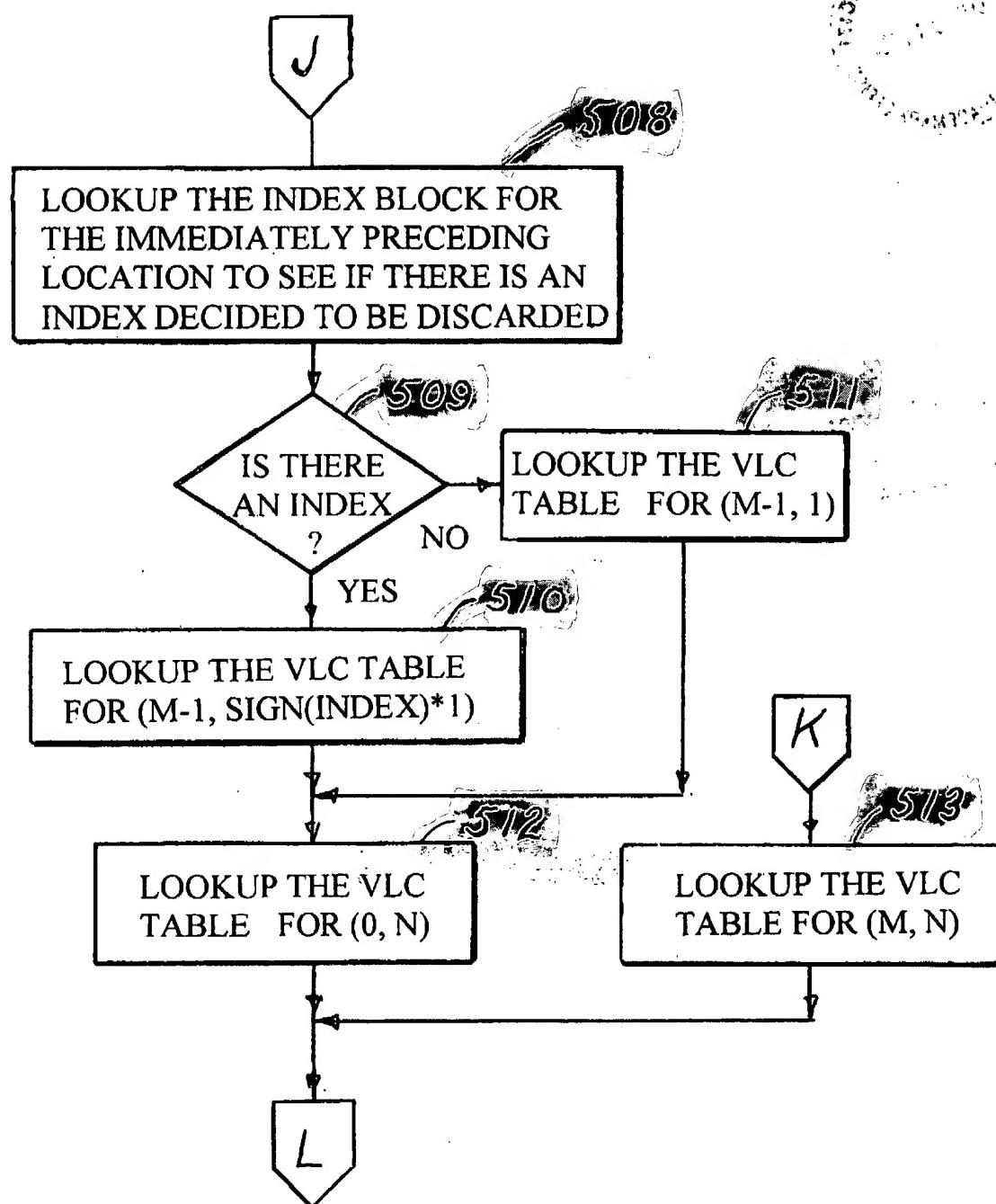


FIG. 39

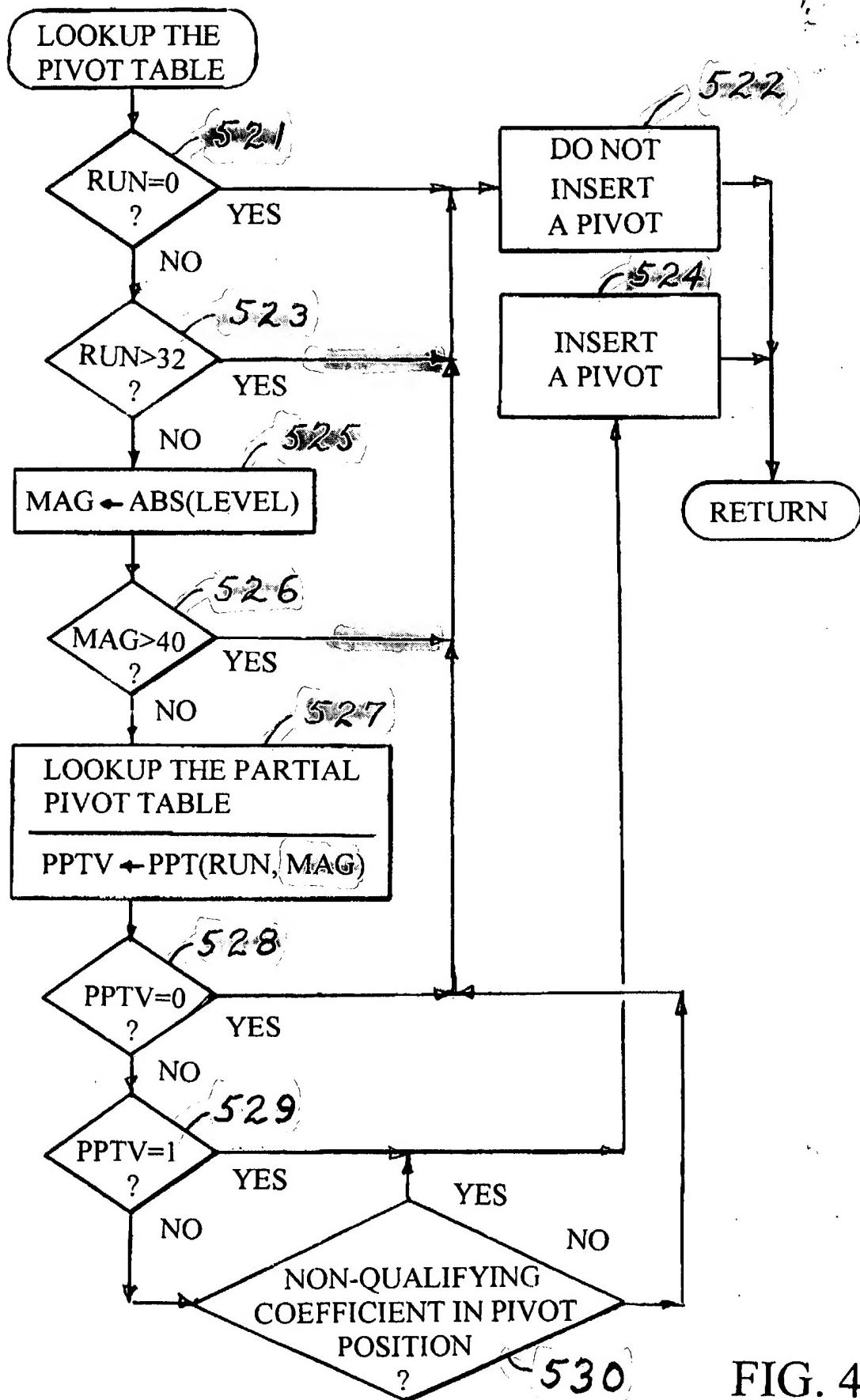


FIG. 40

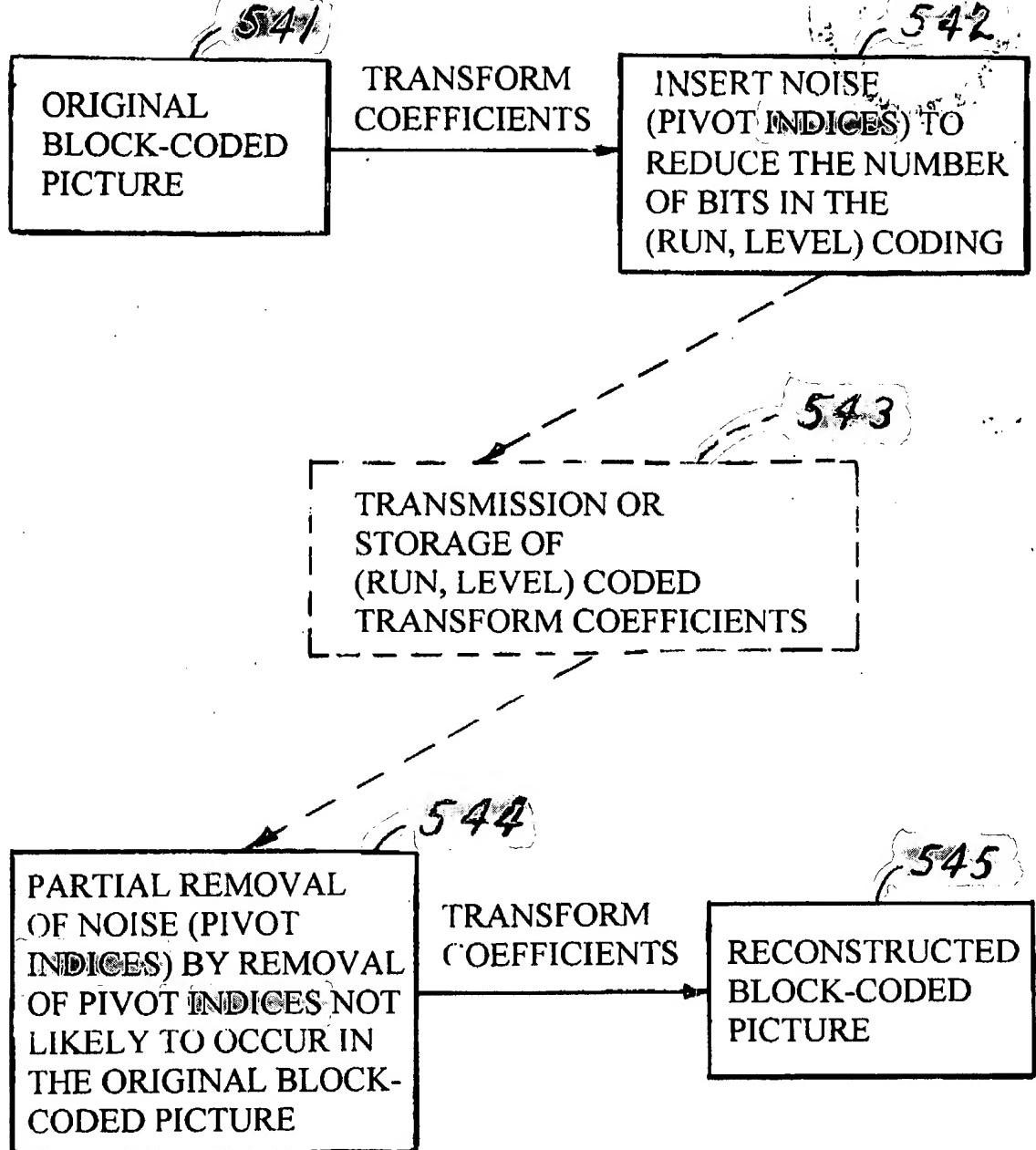


FIG. 41

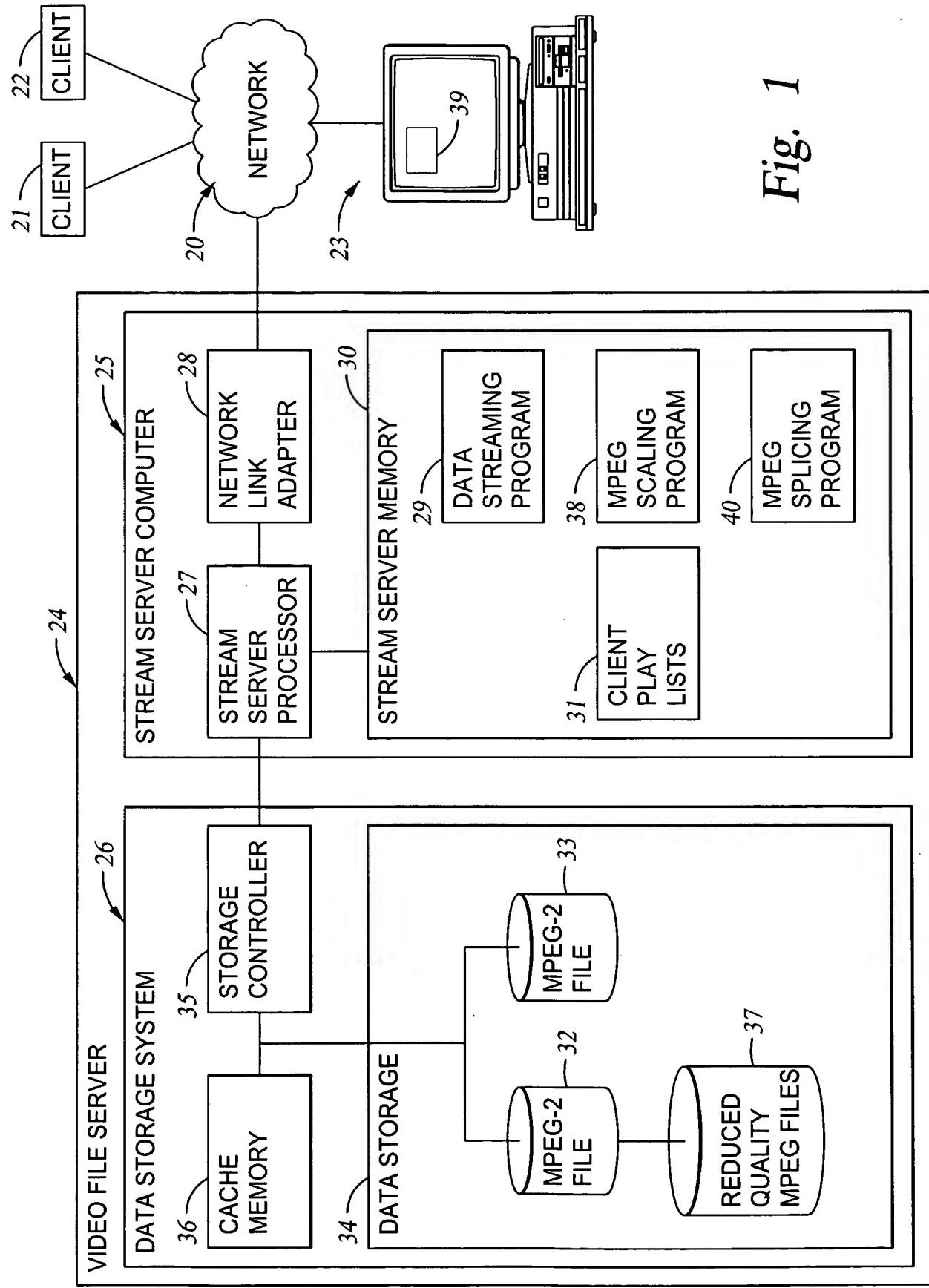
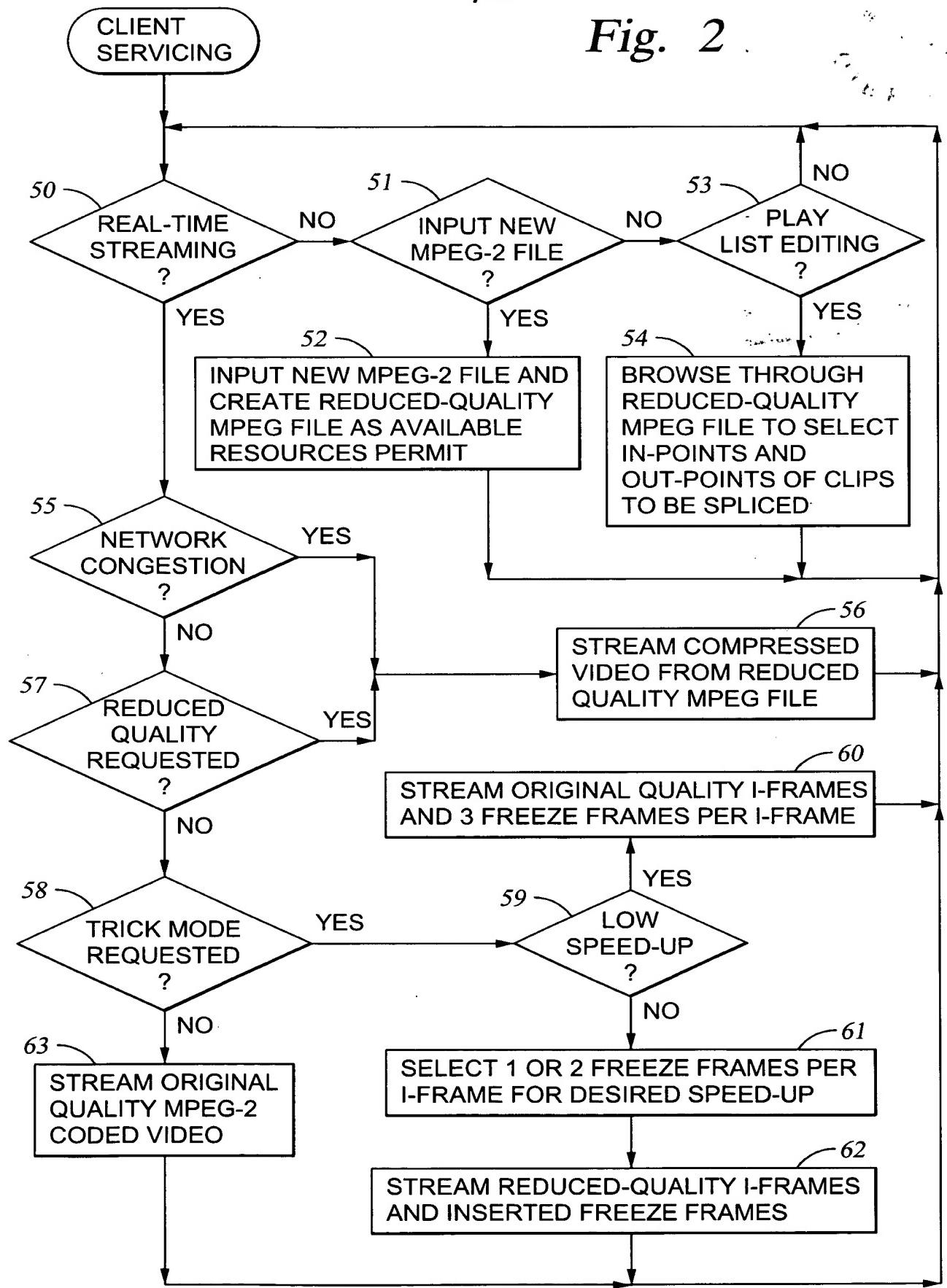


Fig. 1

Fig. 2



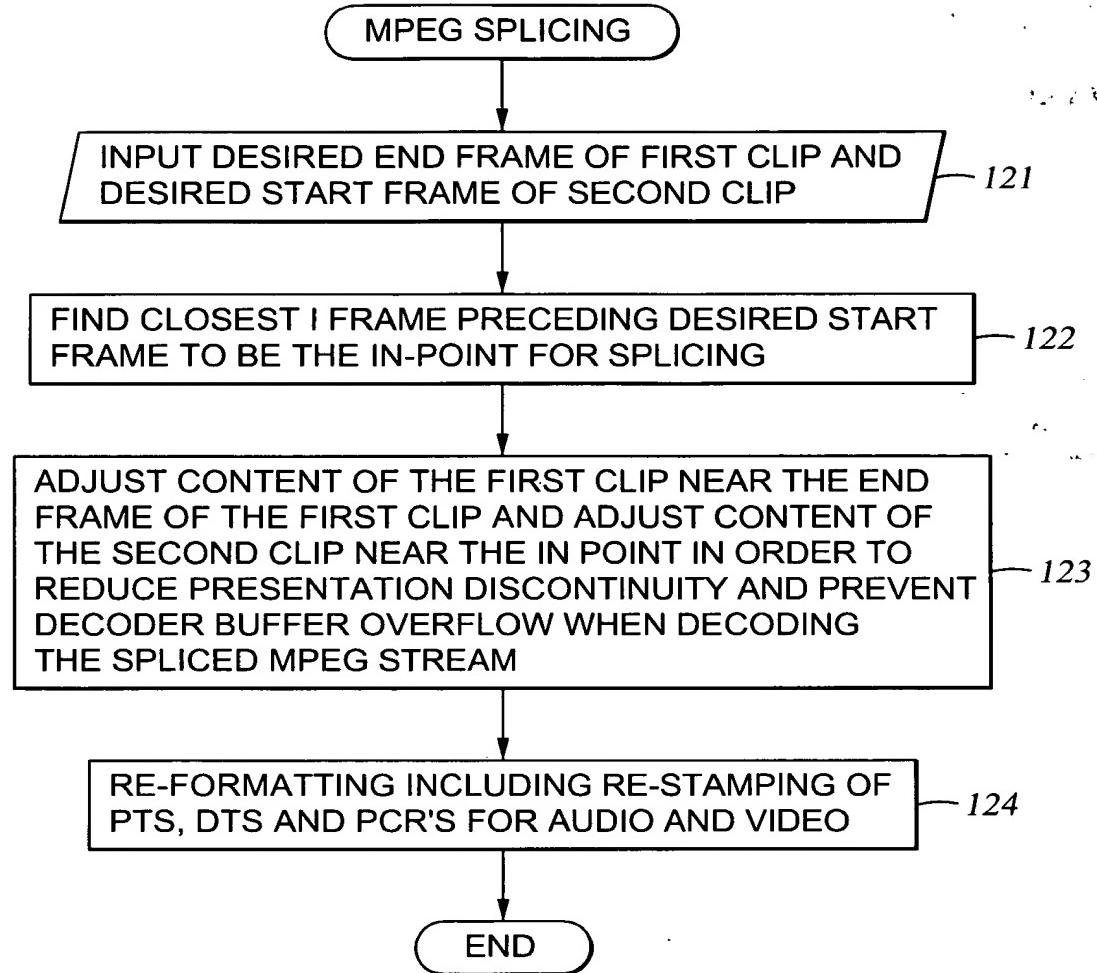


Fig. 3

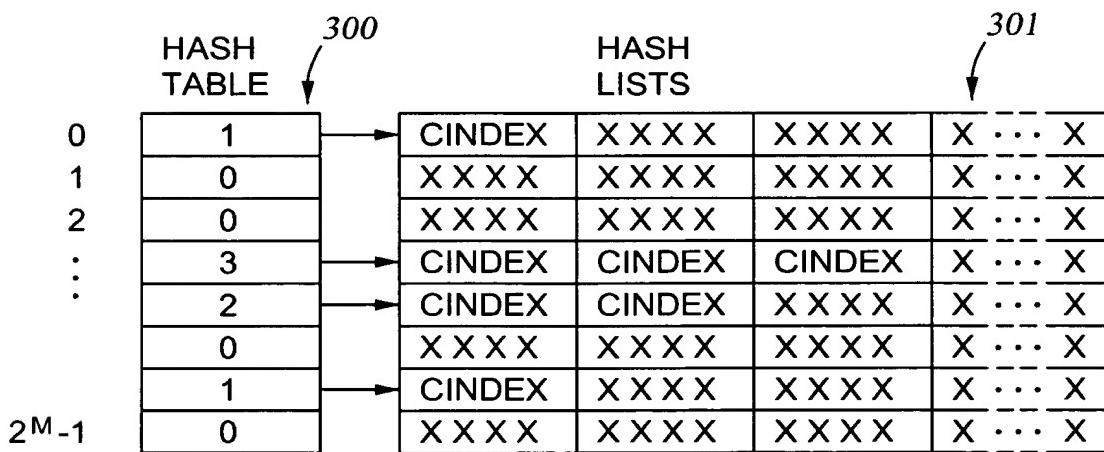


Fig. 18

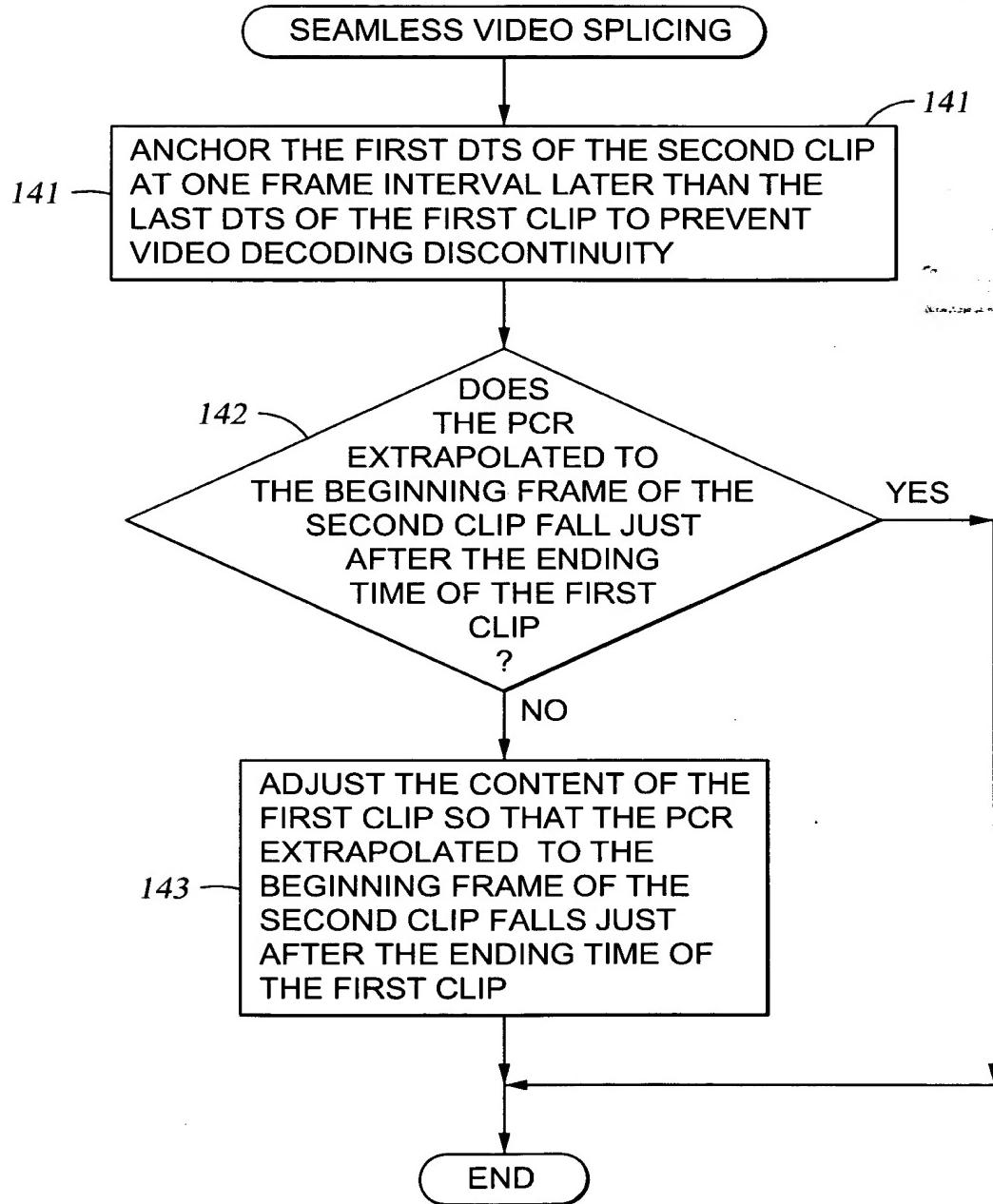


Fig. 4

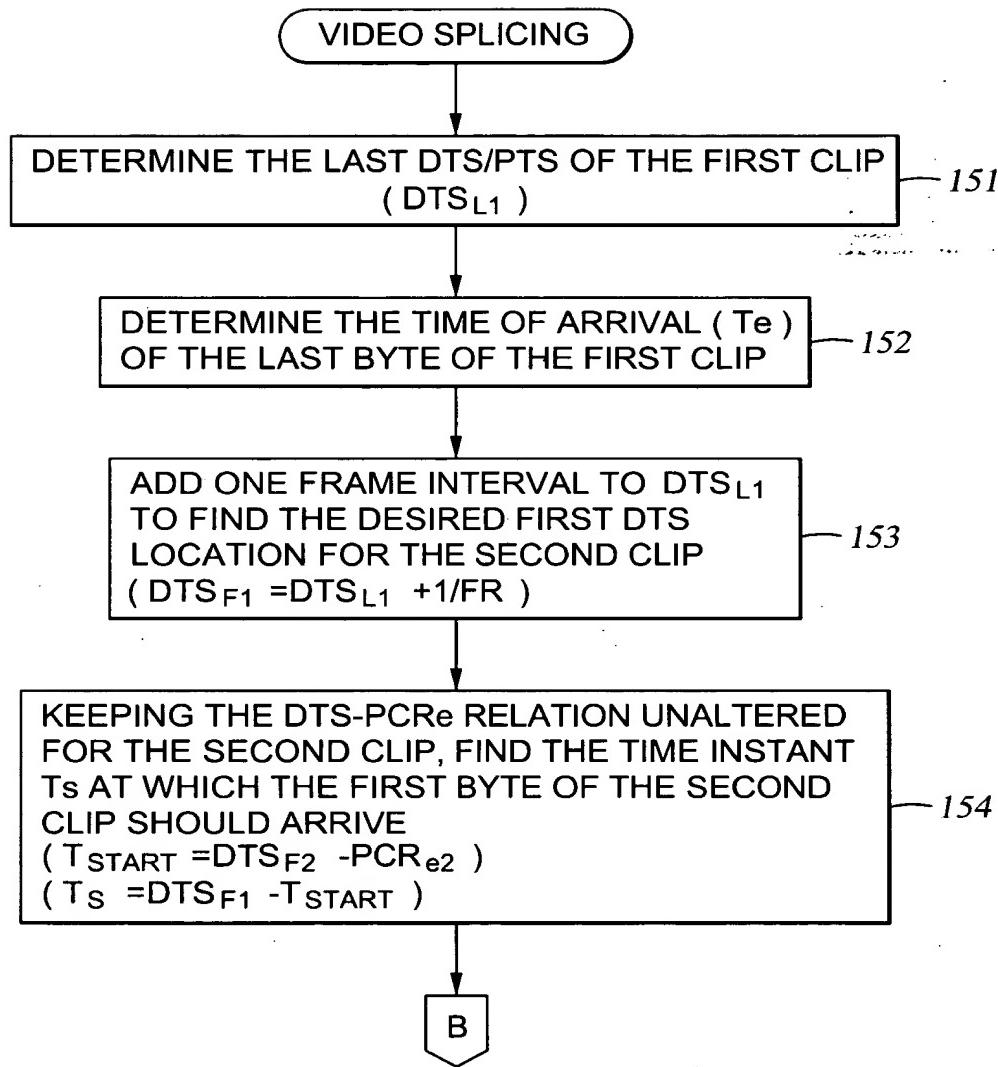


Fig. 5

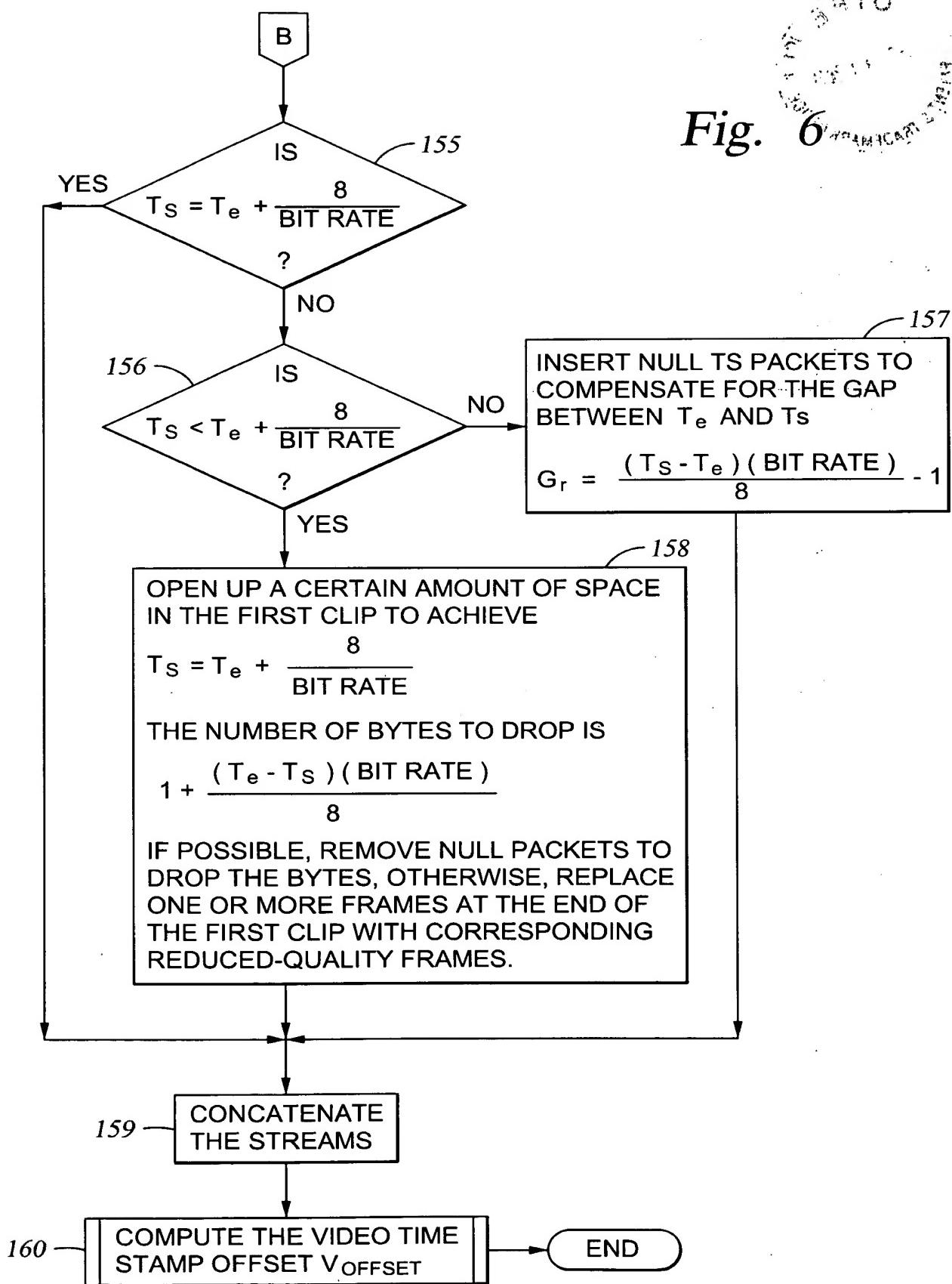


Fig. 7

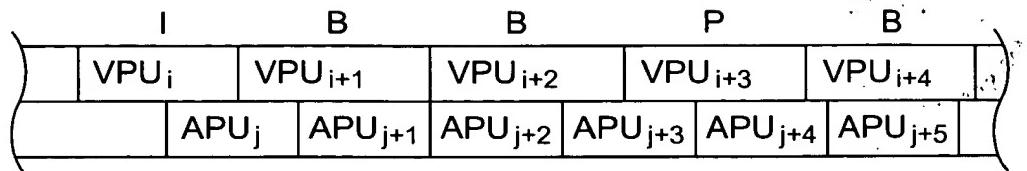


Fig. 8

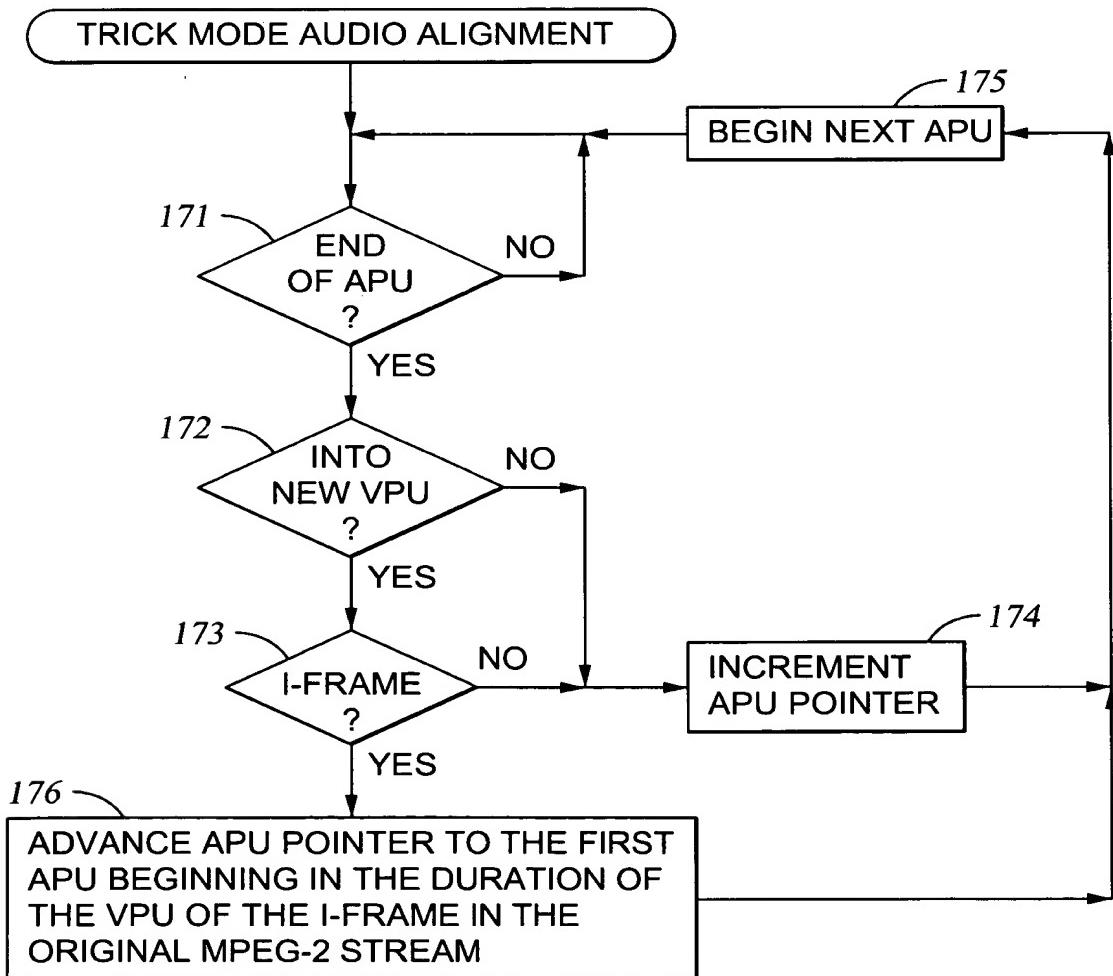
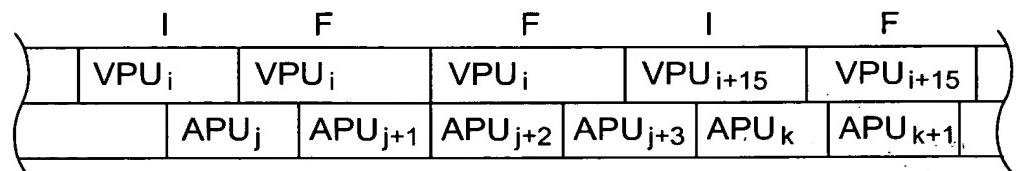


Fig. 9

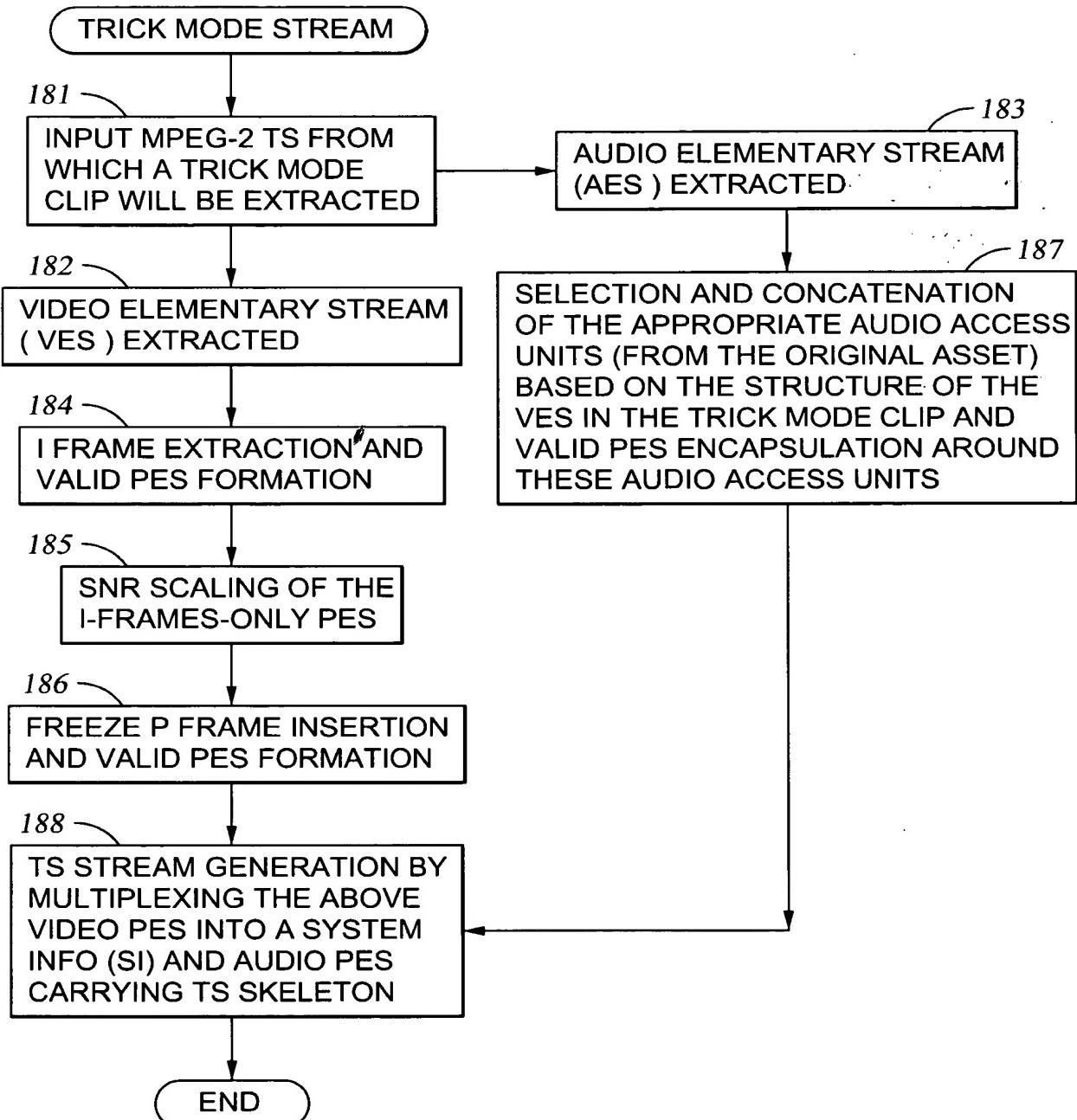


Fig. 10

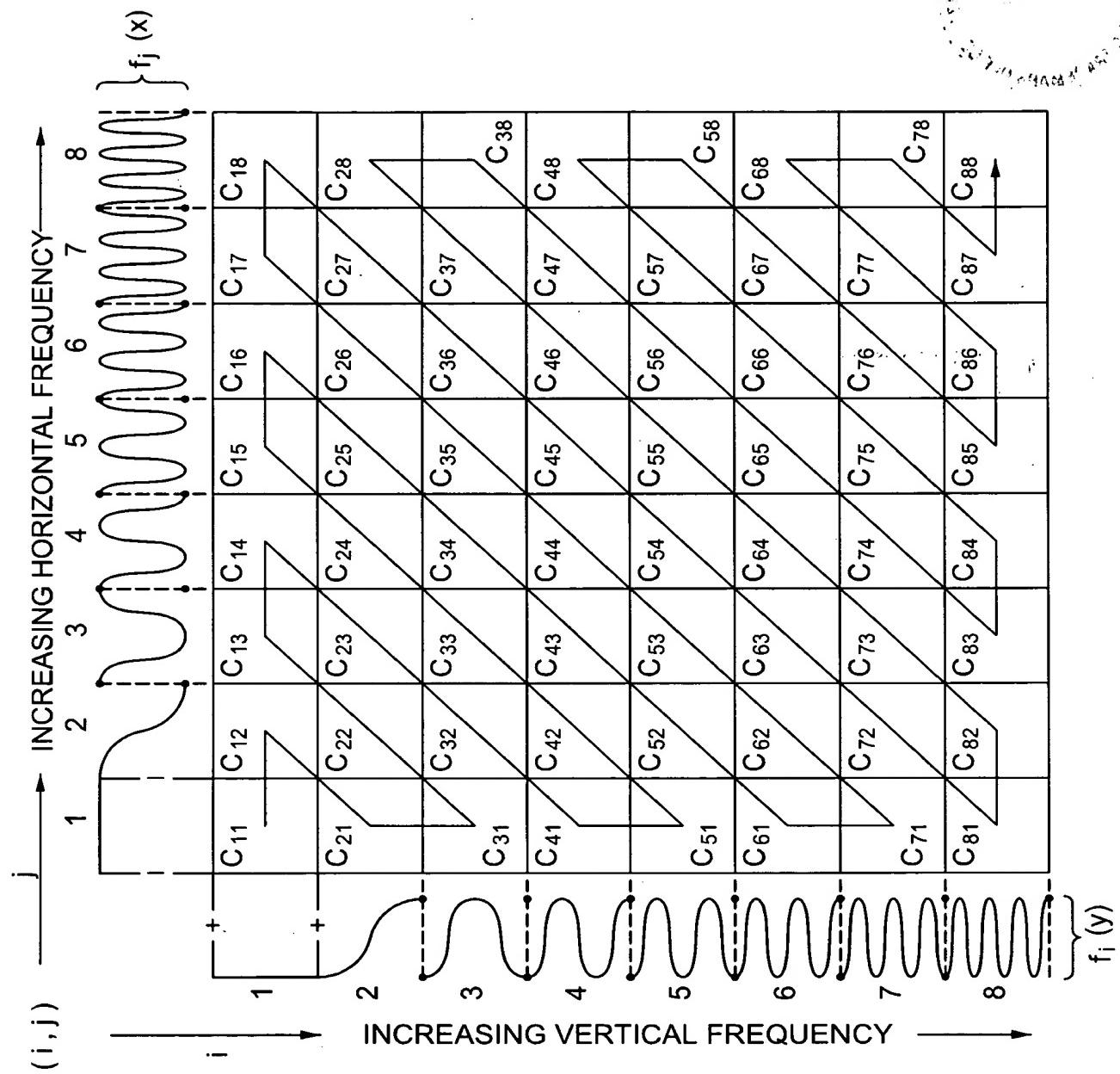
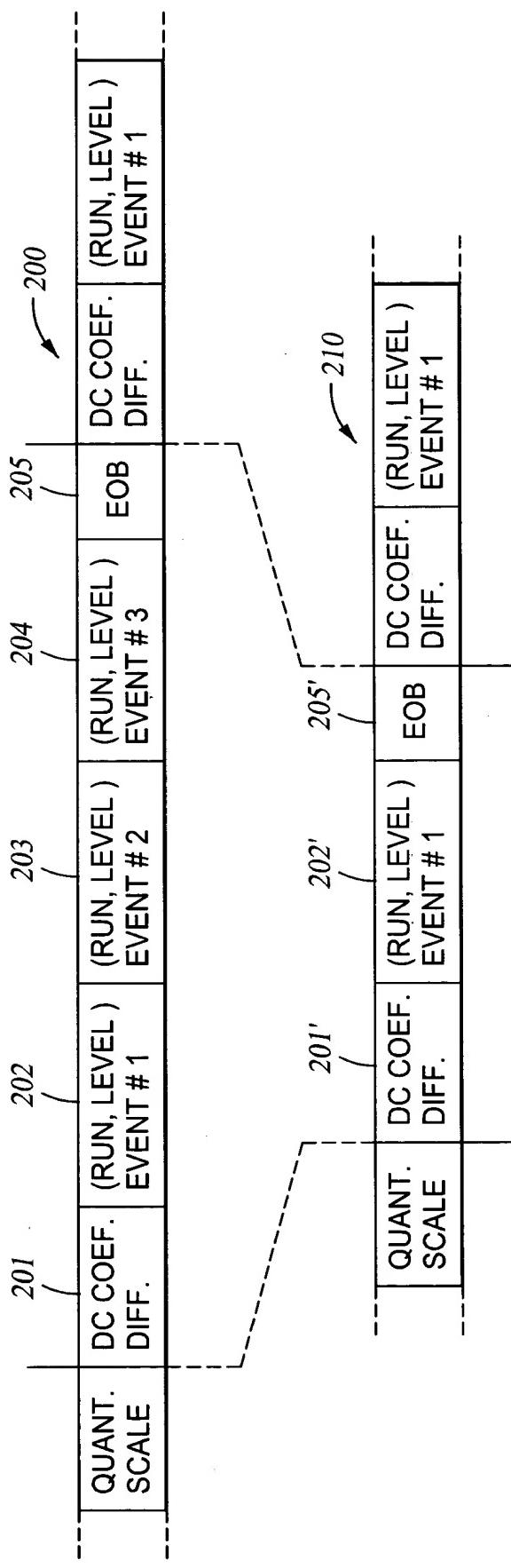


Fig. 11
(PRIOR ART)

Fig. 12

10/39



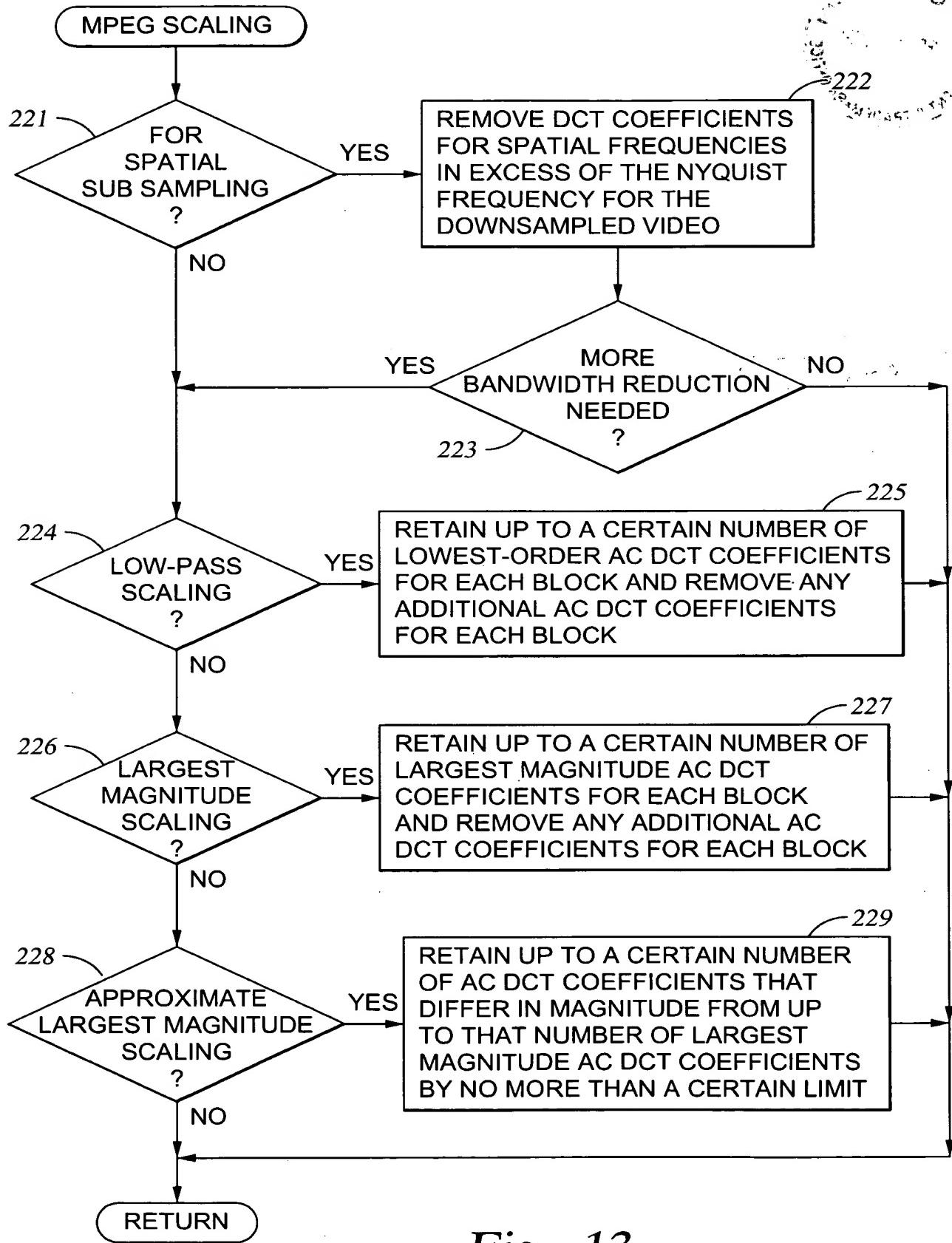


Fig. 13

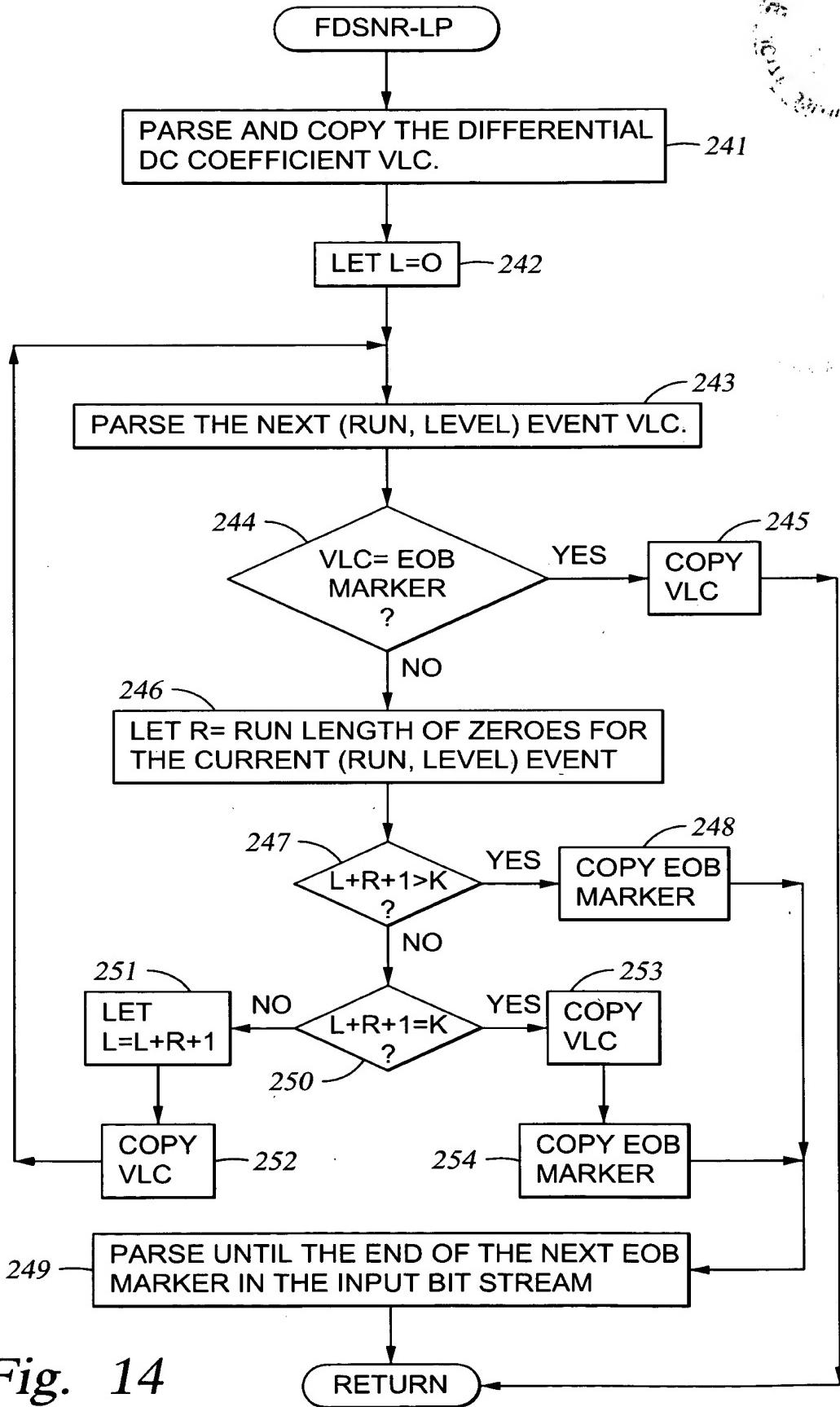


Fig. 14

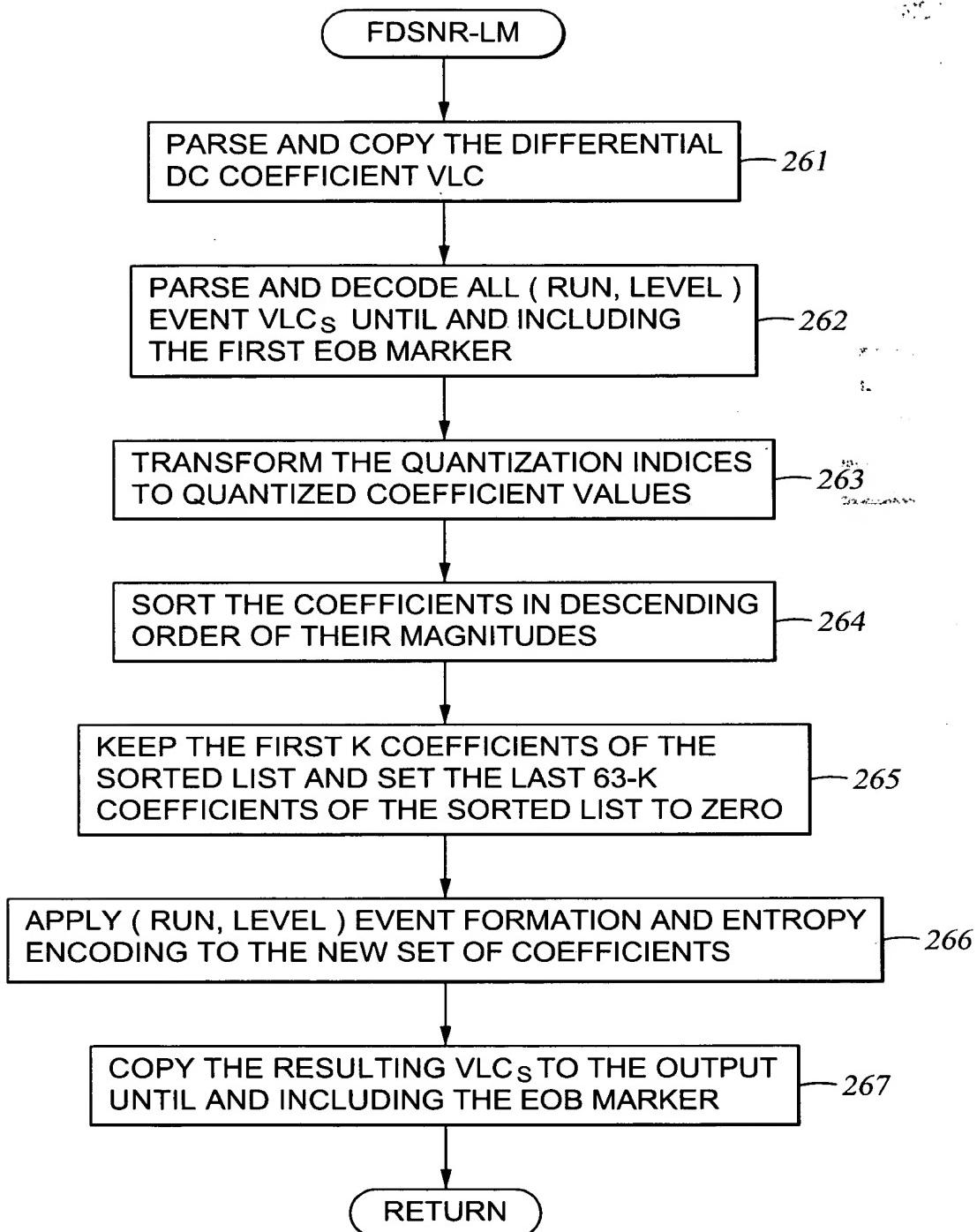


Fig. 15

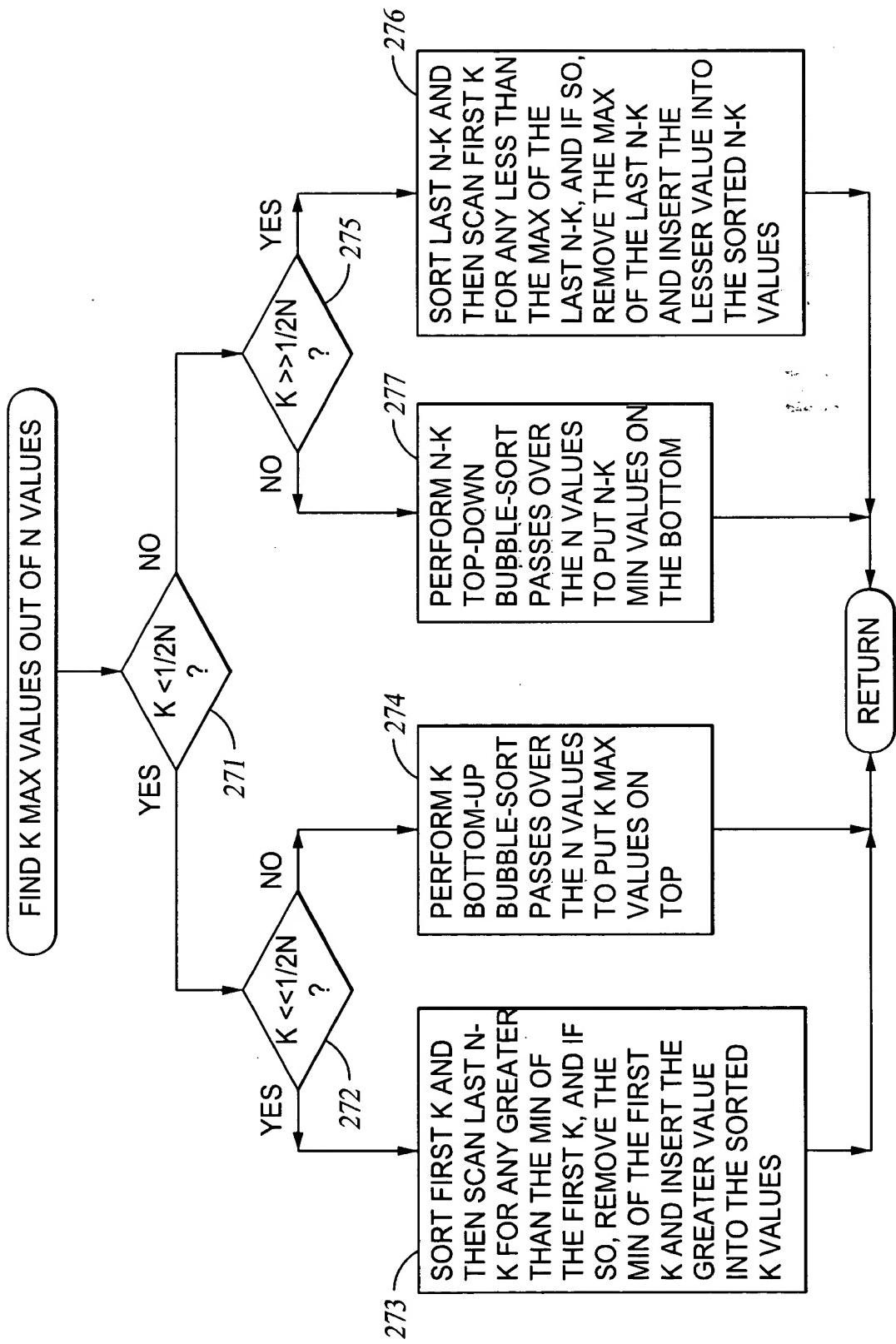


Fig. 16

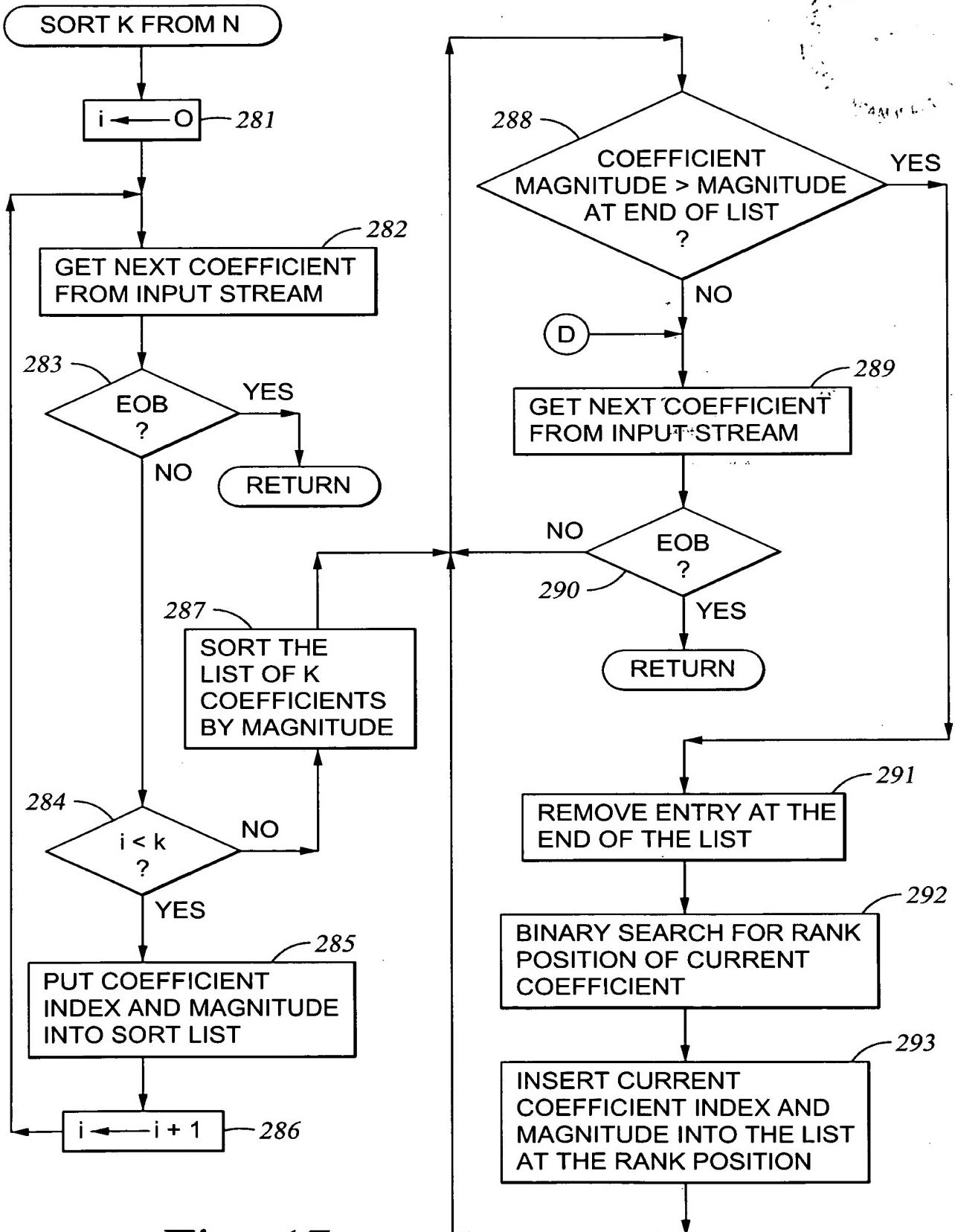


Fig. 17

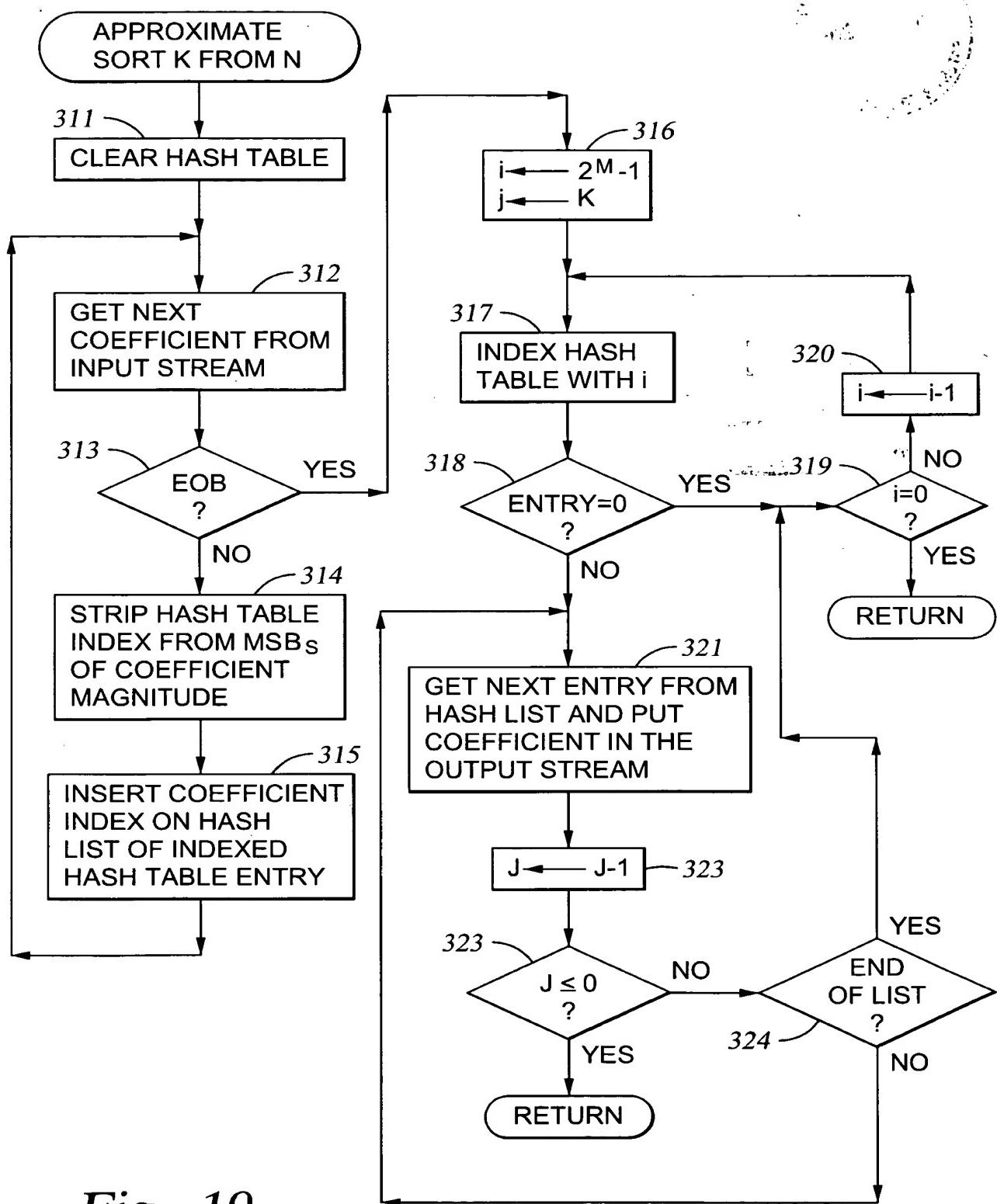


Fig. 19

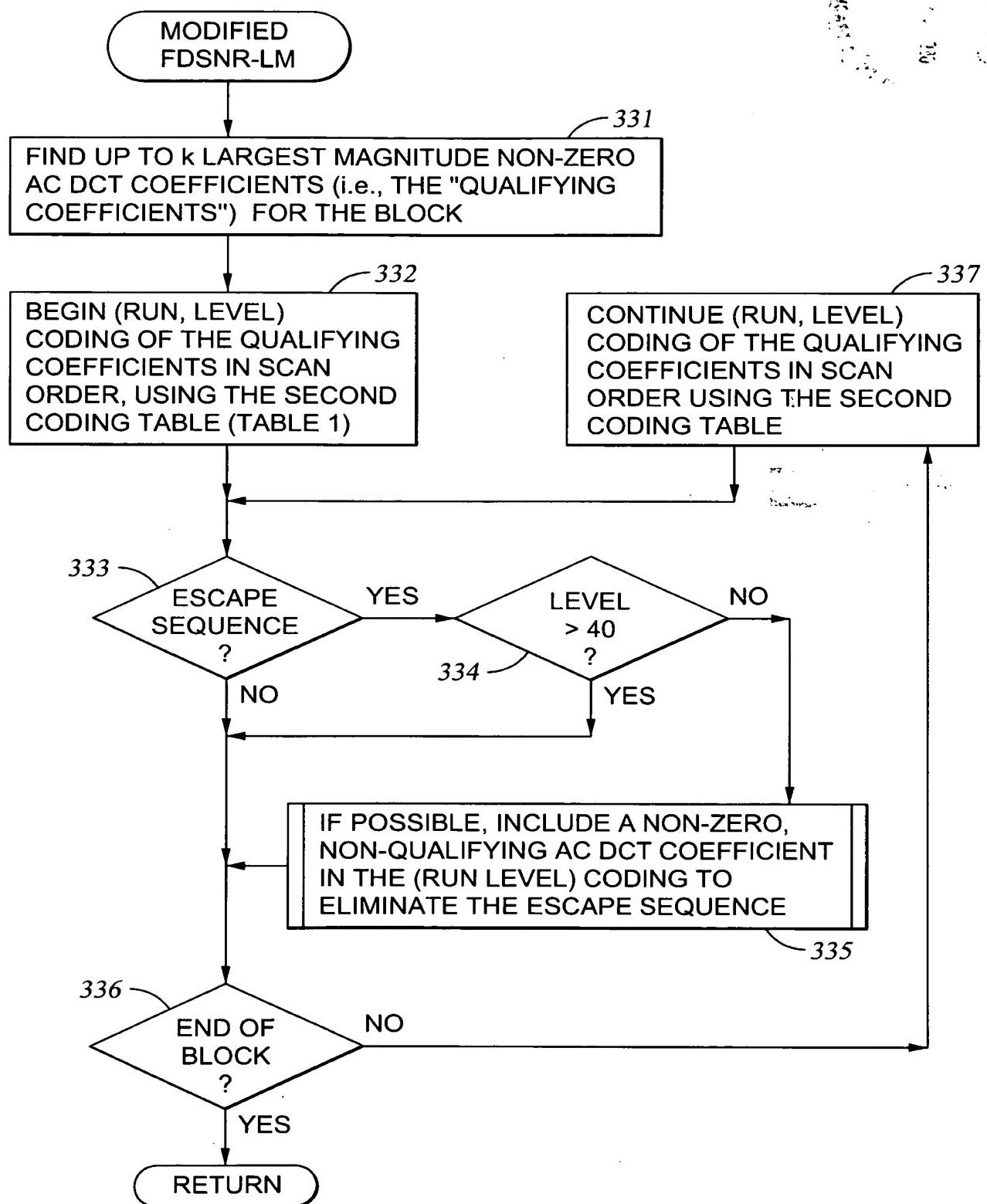


Fig. 20

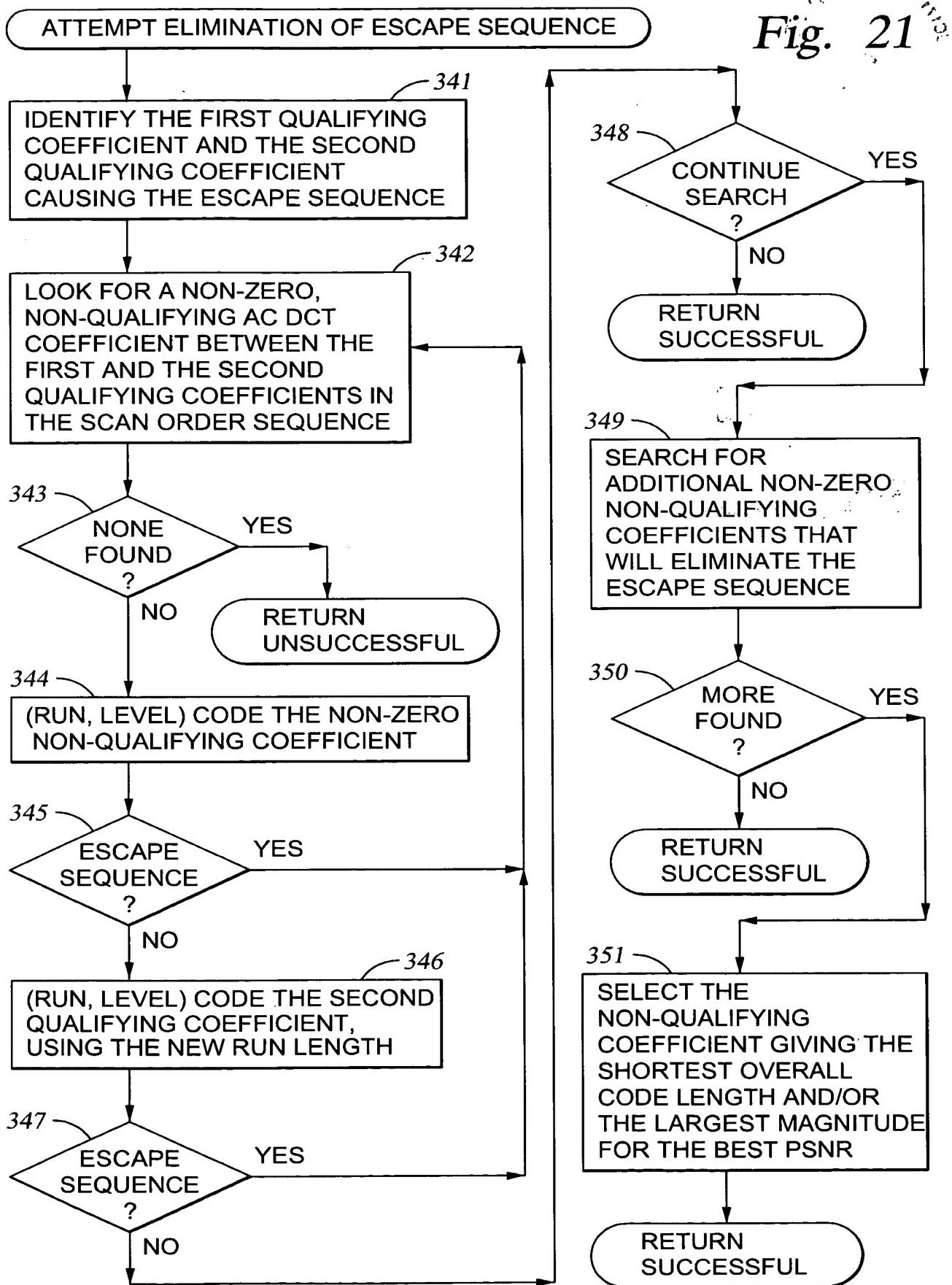


Fig. 22

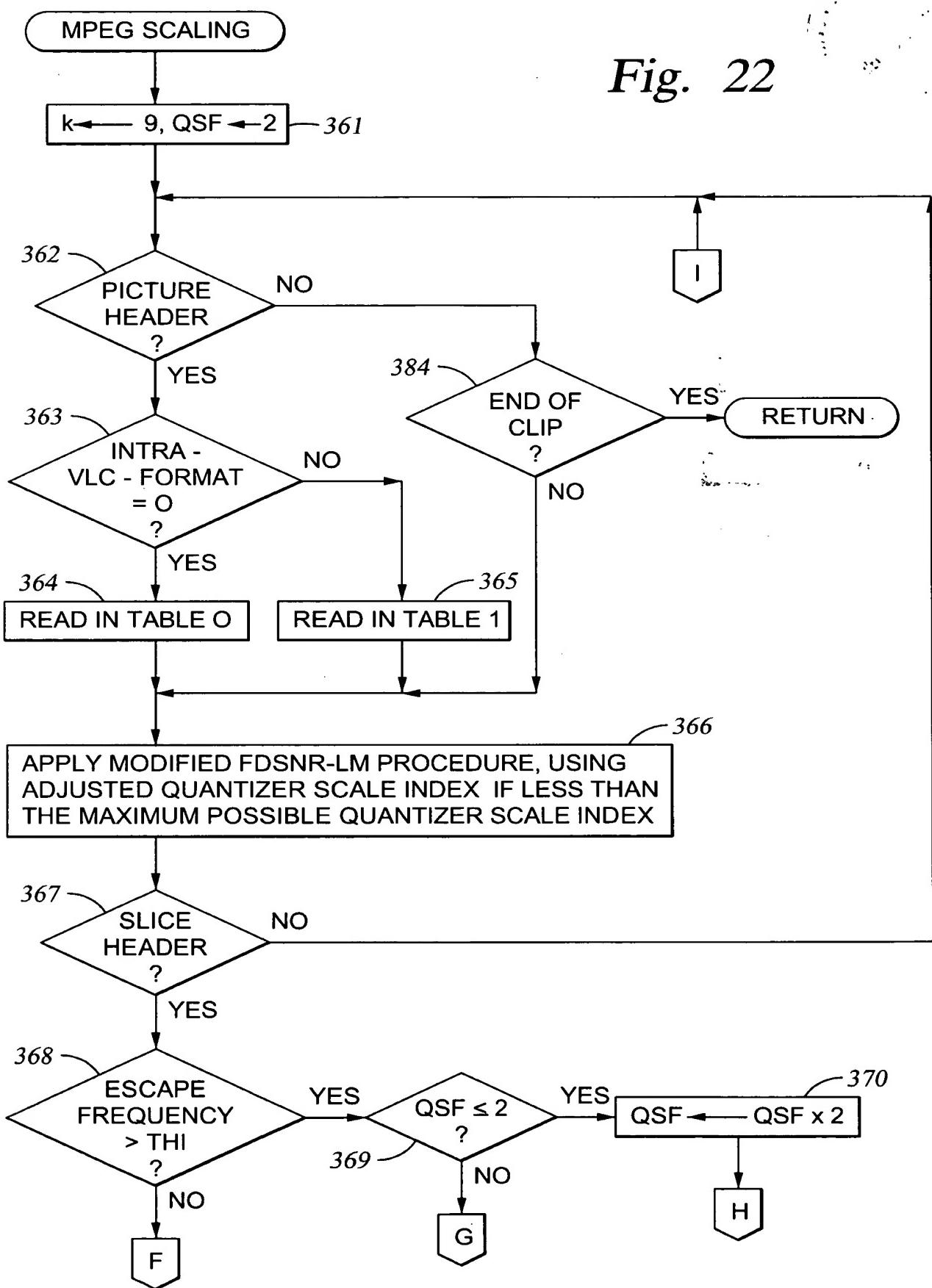


Fig. 23

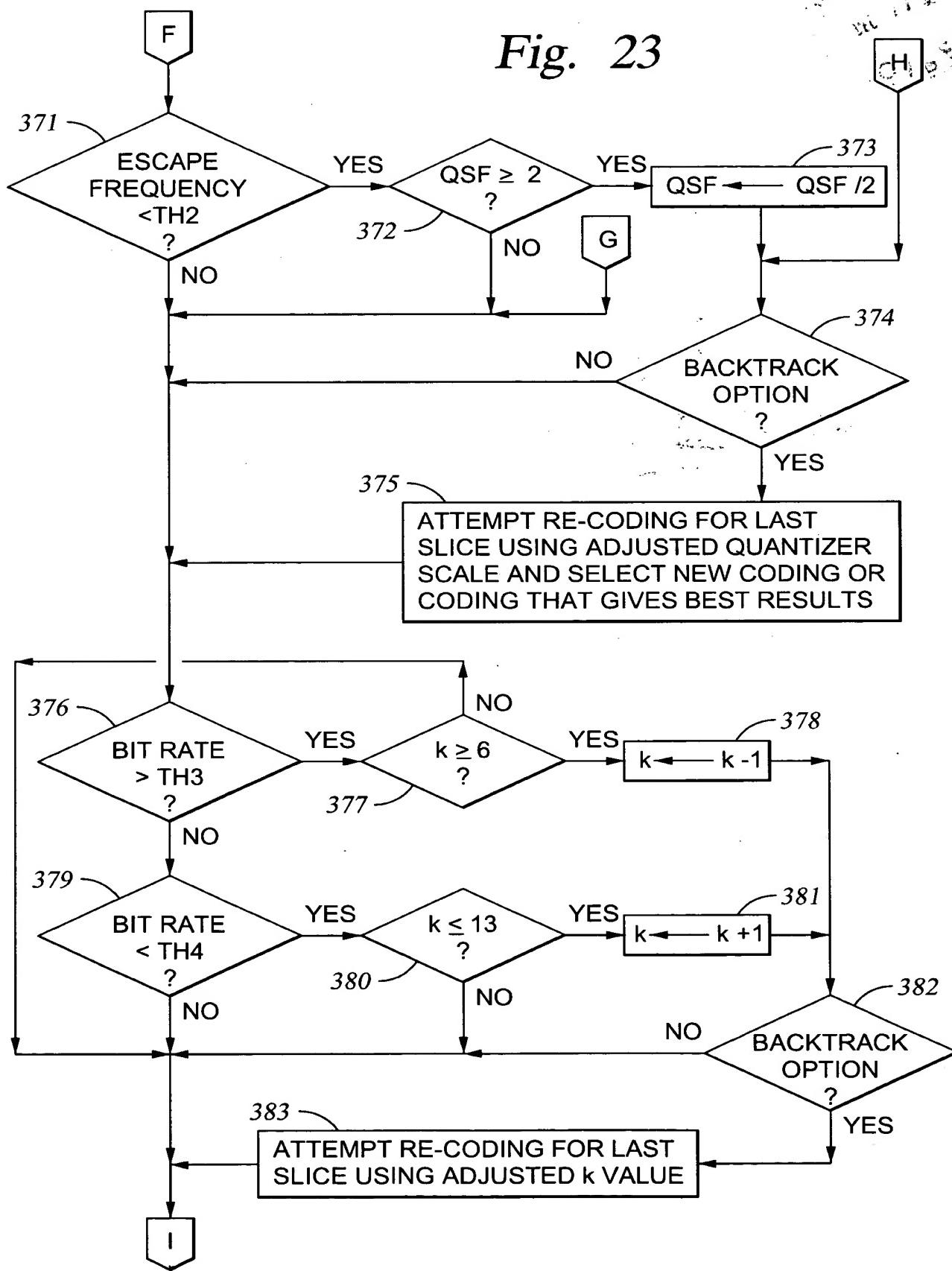


Fig. 24

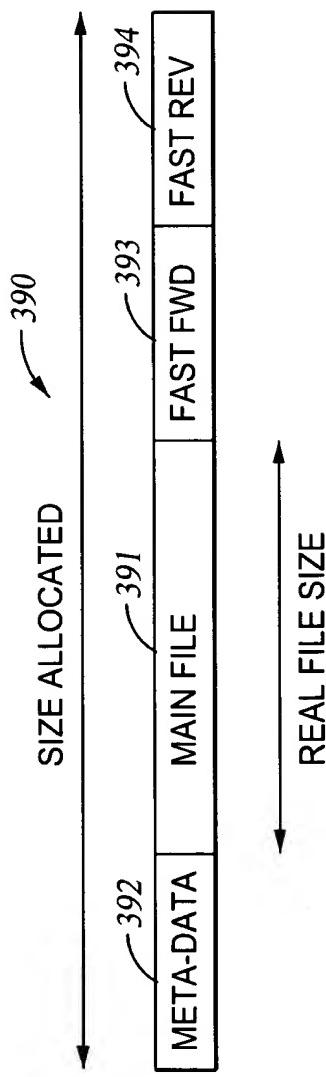
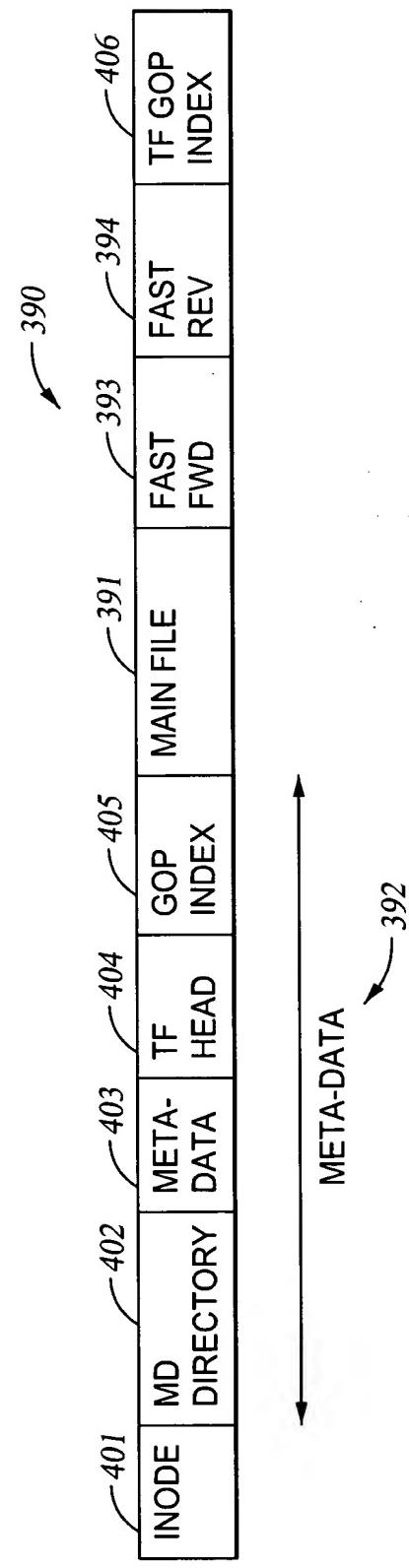


Fig. 25



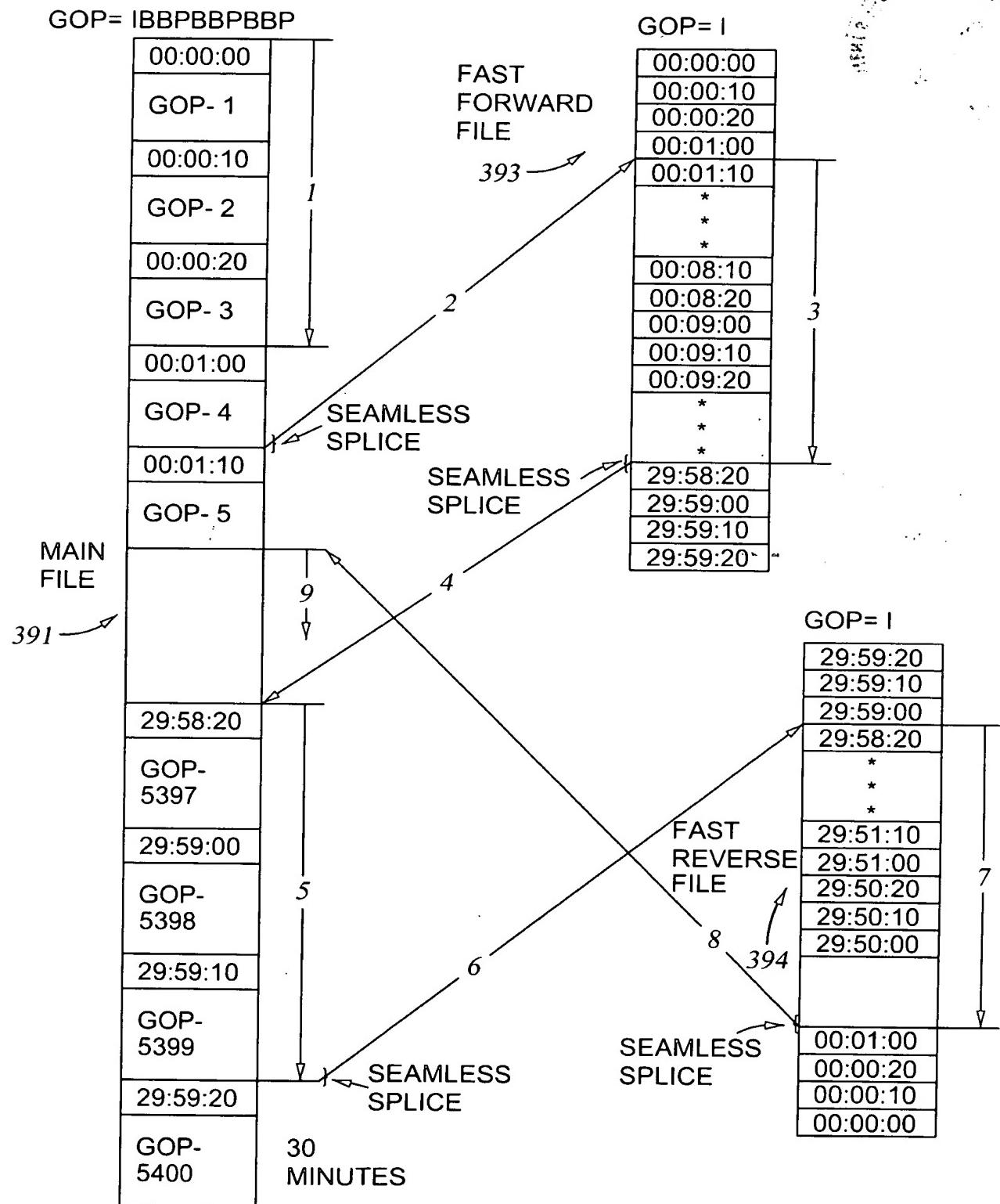
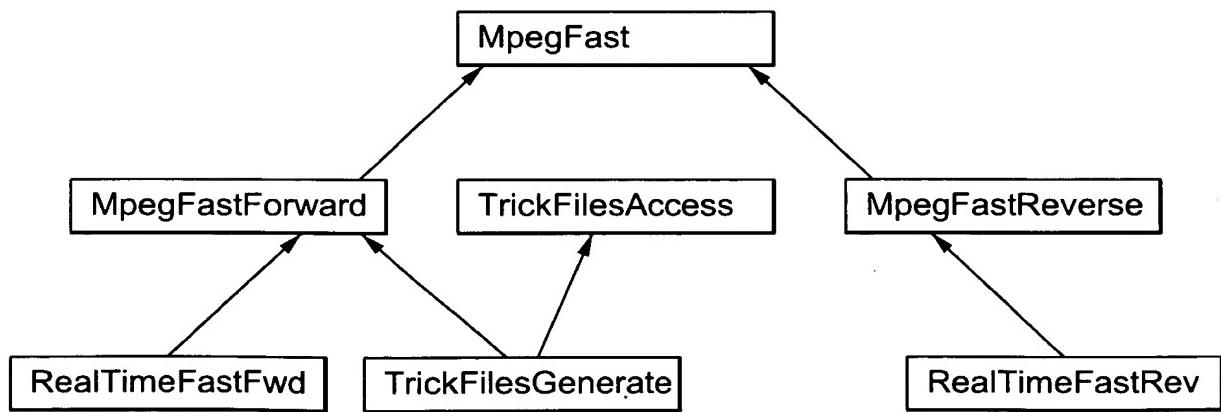


Fig. 26A

Fig. 26B

- 1- Play from start 1 sec
 2- Pause
 3- Fast Forward to 29 min
 4- Pause
 5- Play 1 sec
 6- Pause
 7- Fast Reverse to 1 sec
 8- Pause
 9- Play Normal

	READ	WRITE
COPY OF THE ASSET WITH ALL THE DATA	EMPEG2	EMPEG2
COPY ONLY THE MAIN ASSET	RAW	MPEG2
ARCHIVE	EMPEG2	EMPEG2
PLAY	MPEG2	
RECORD		MPEG2

Fig. 27*Fig. 28*

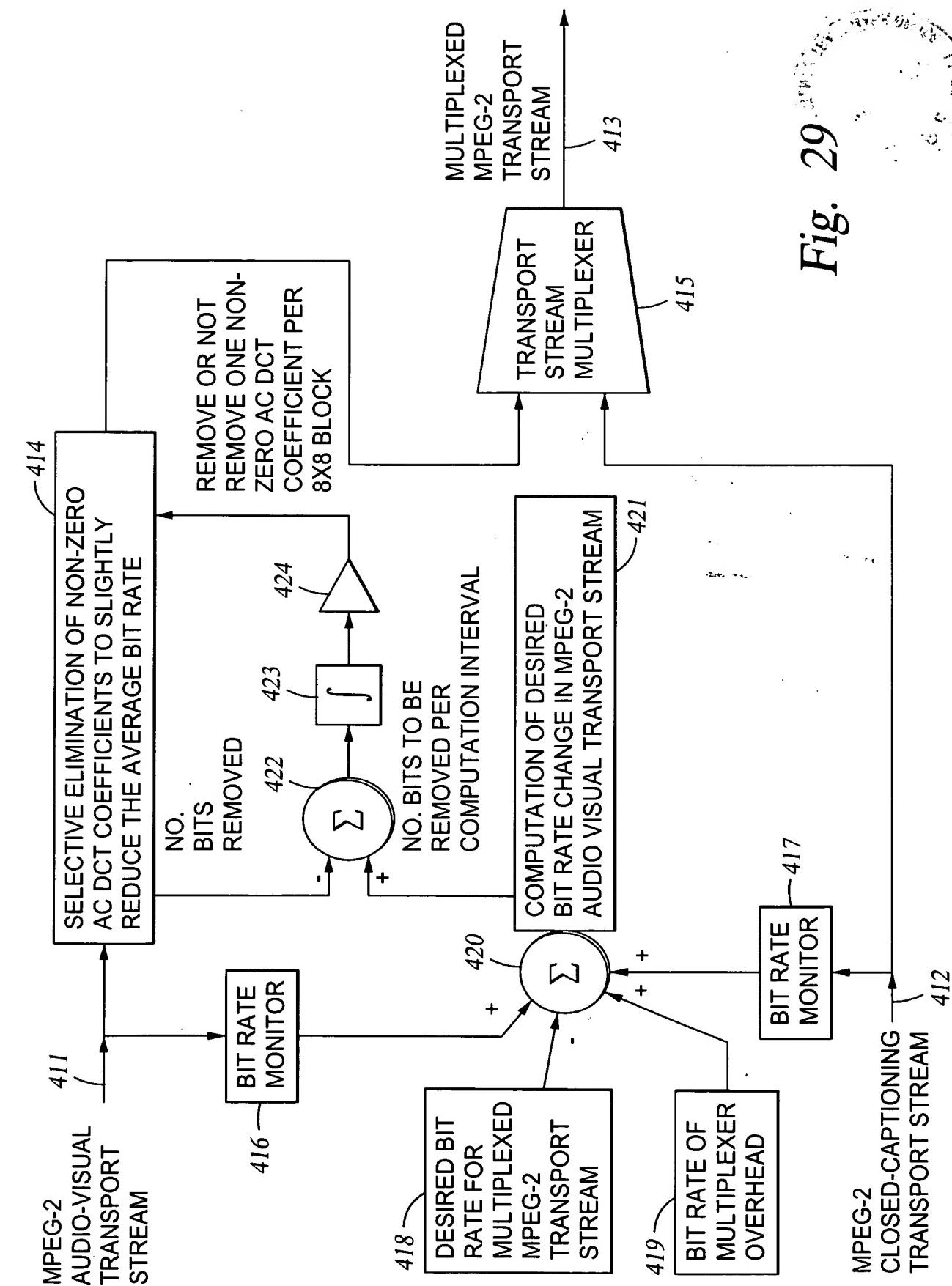


Fig. 29

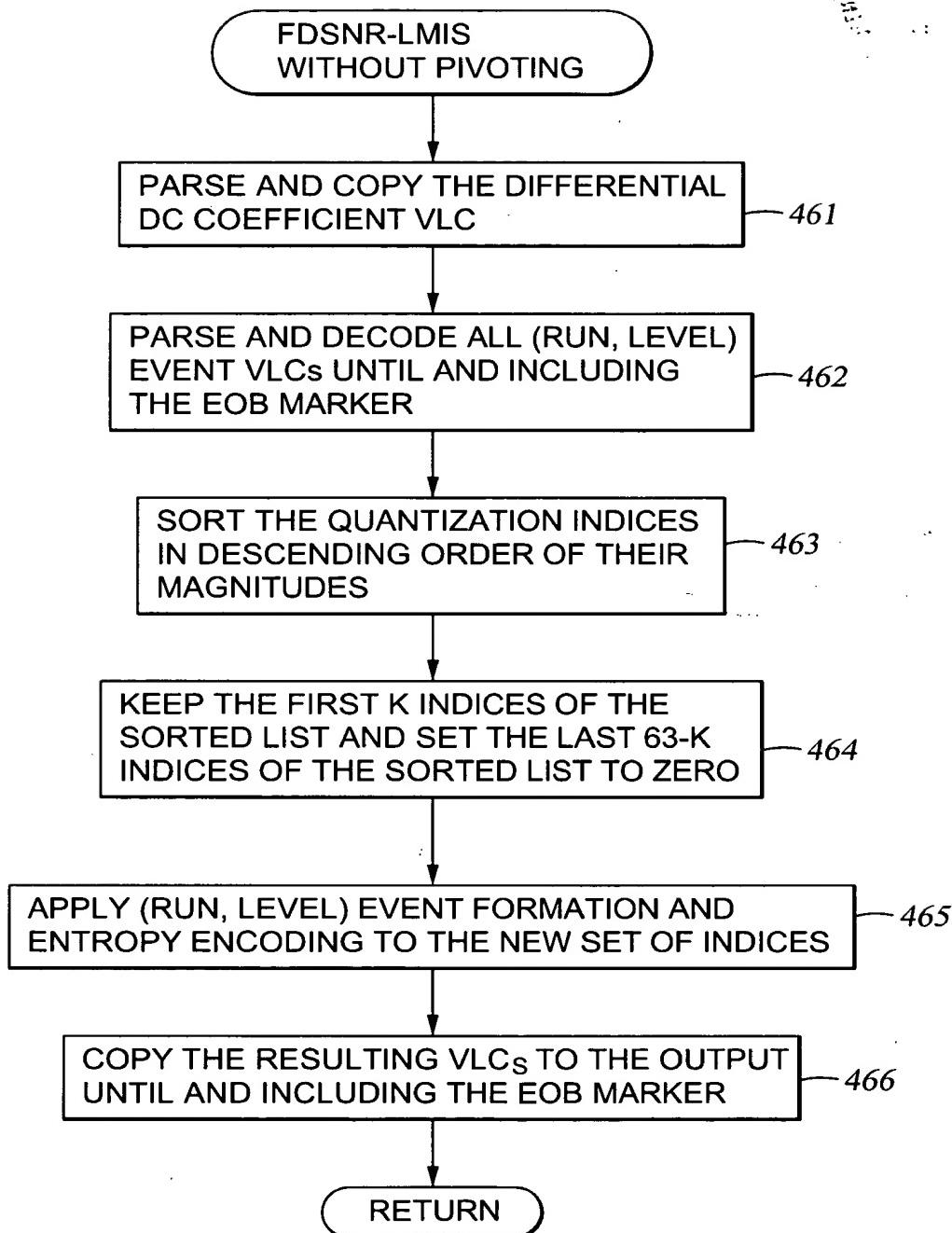


Fig. 30

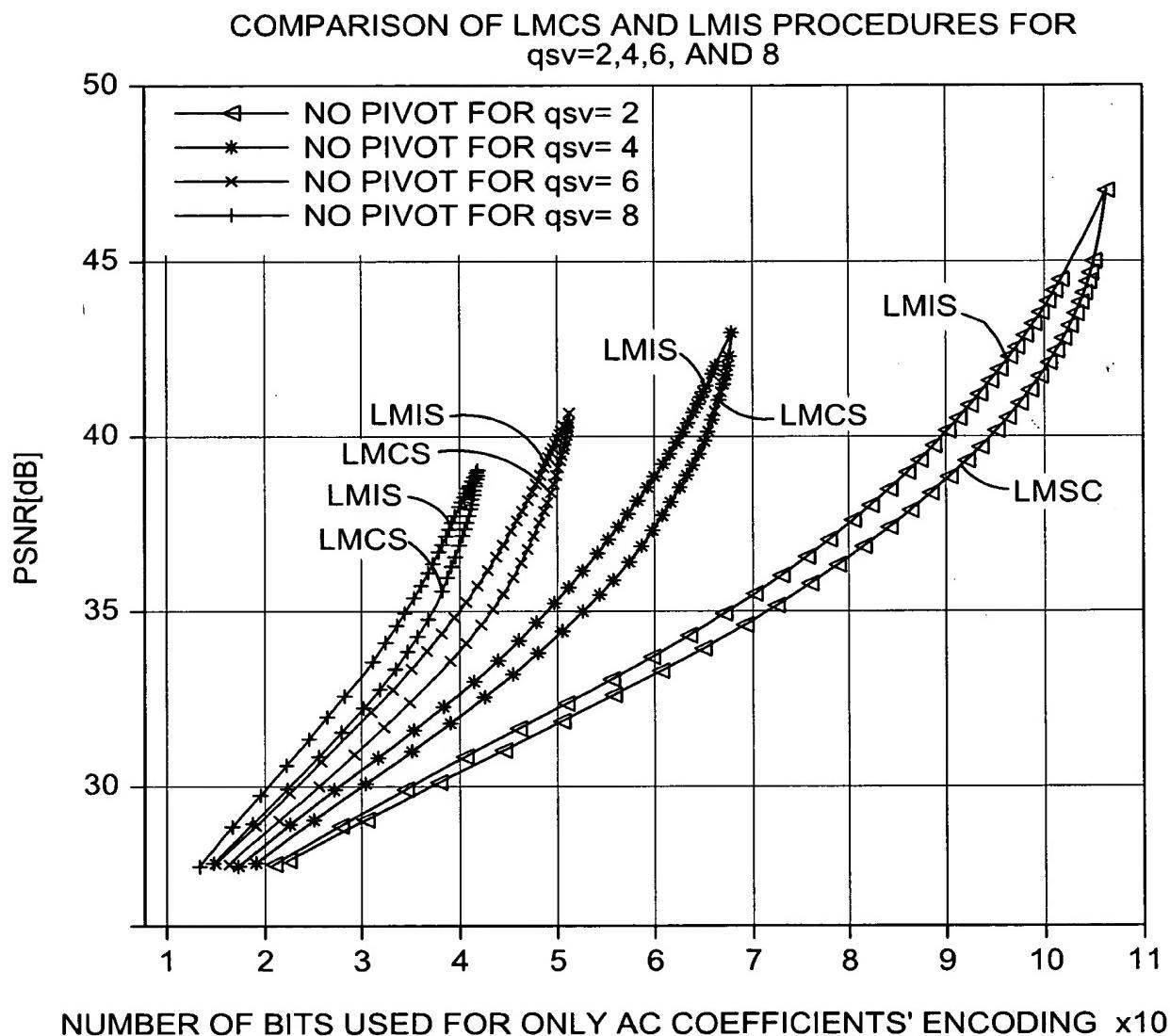


Fig. 31



COMPARISON OF LMCS AND LMIS PROCEDURES FOR
qsv=12,16,20, AND 24

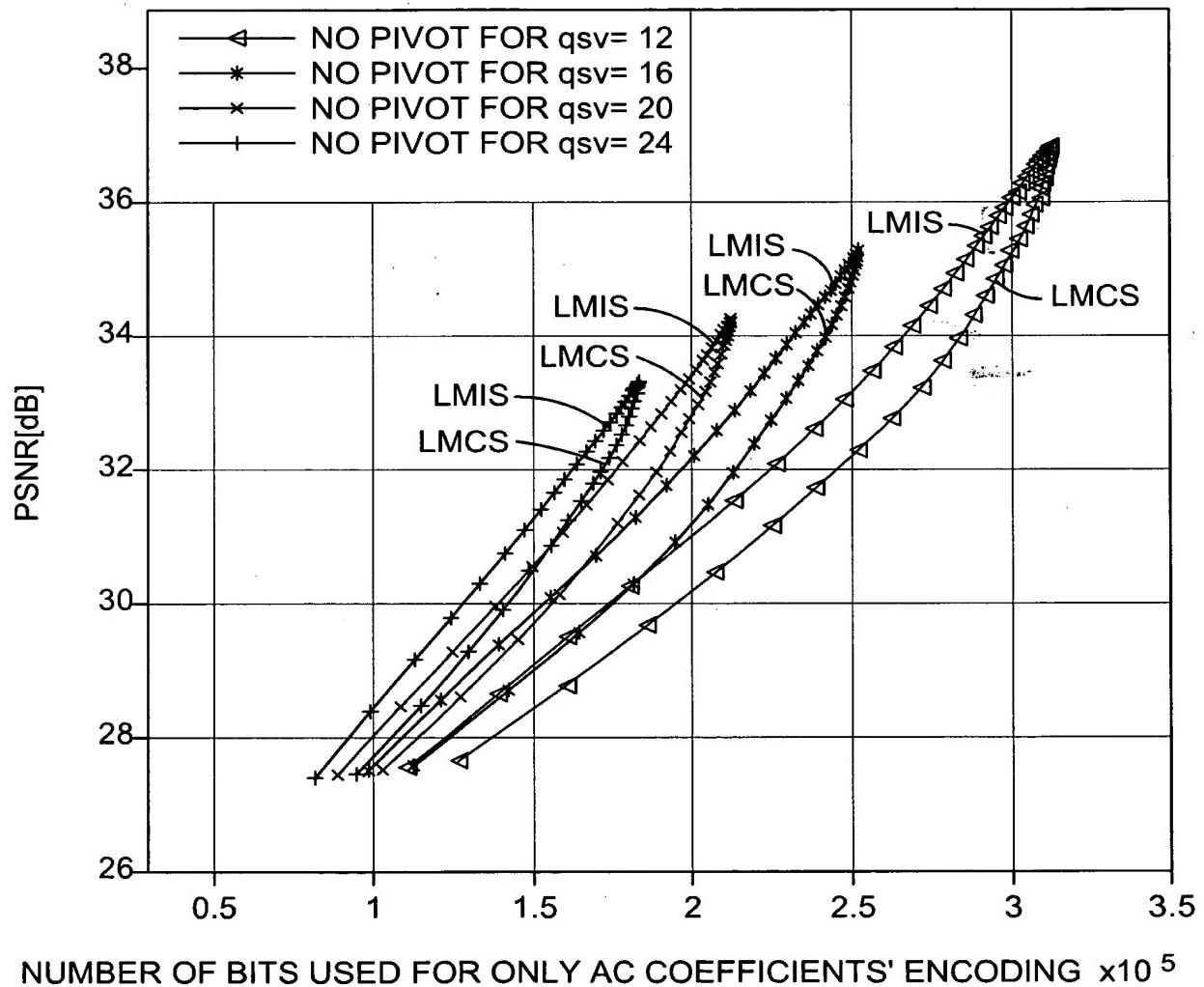


Fig. 32

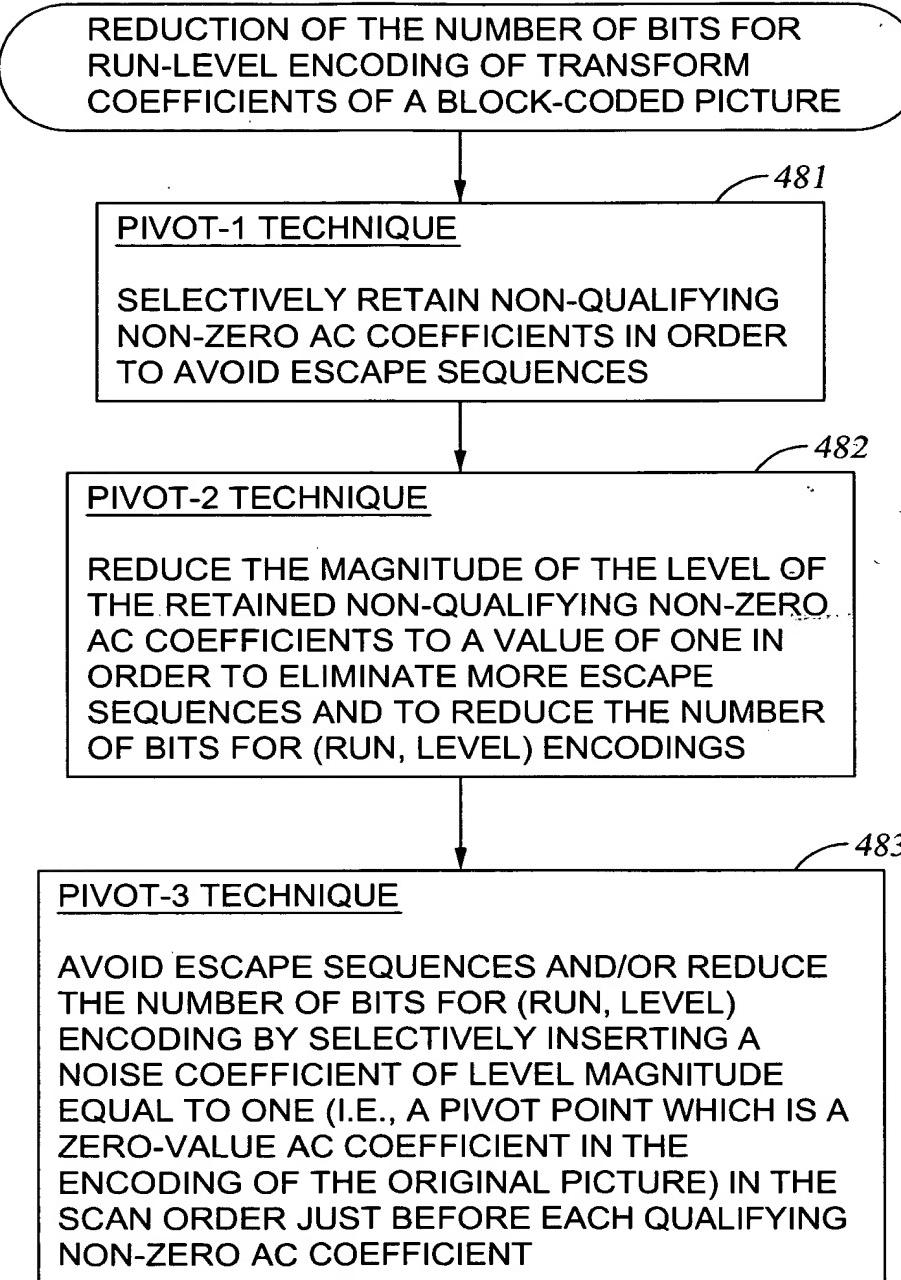


Fig. 33

THE EFFECT OF PIVOT TECHNIQUES ON THE ESCAPE
SEQUENCE COUNT GENERATED BY LMCS FOR $qsv=4$

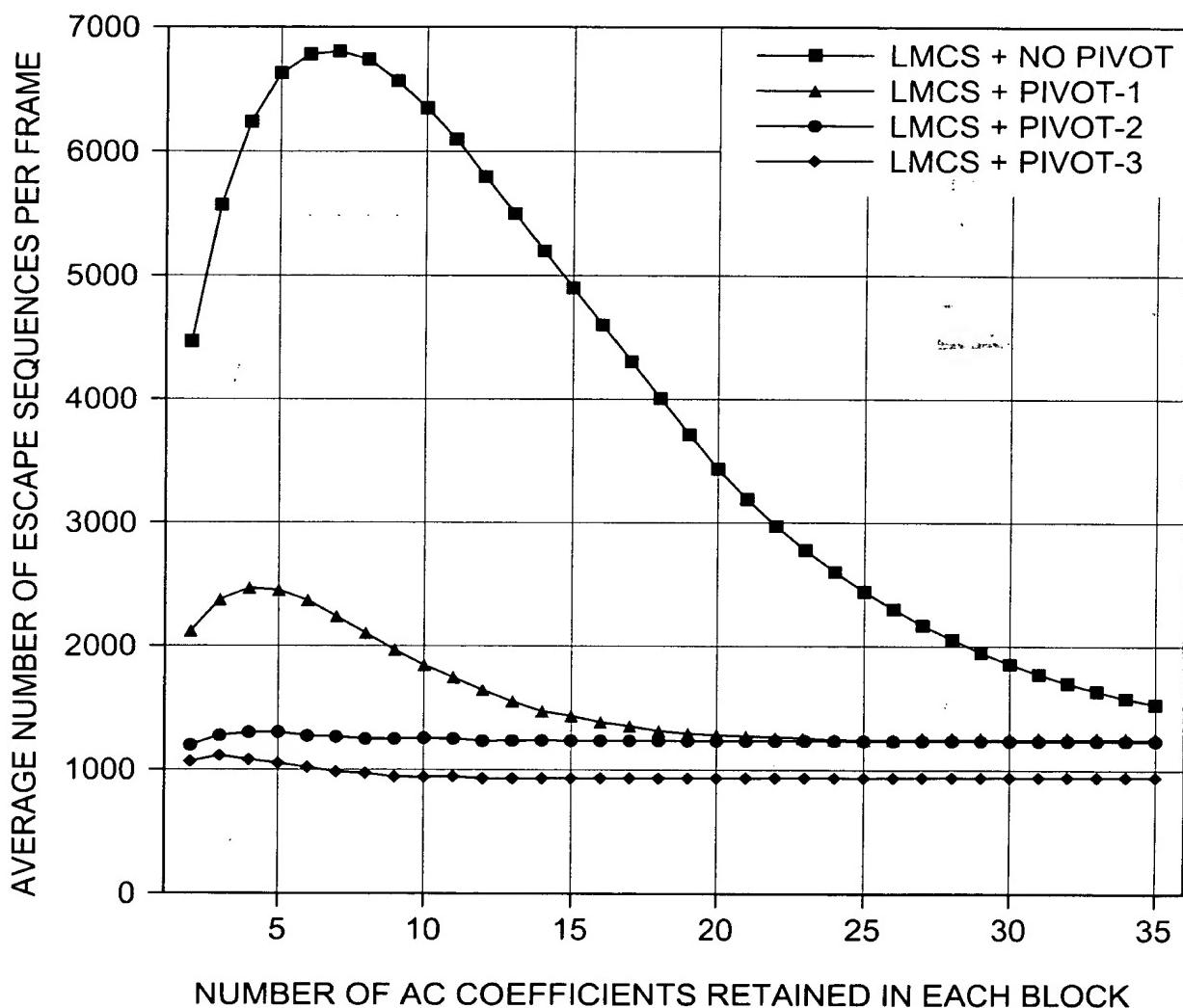


Fig. 34

THE EFFECT OF PIVOT TECHNIQUES ON THE ESCAPE
SEQUENCE COUNT GENERATED BY LMCS
FOR qsv=24

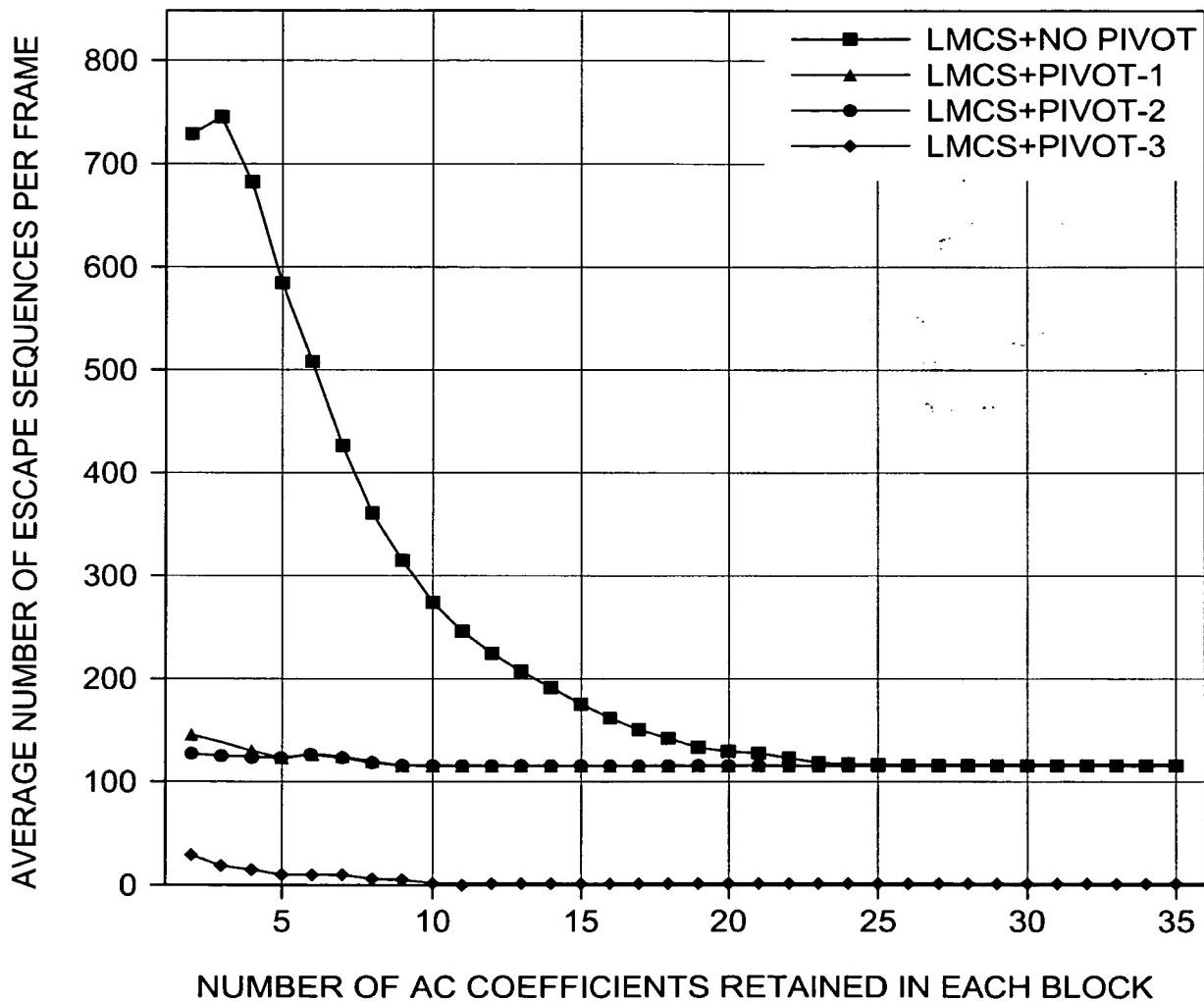
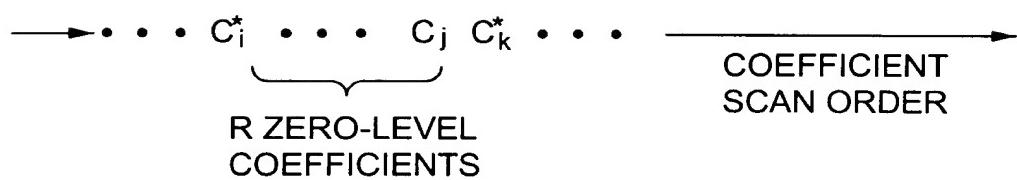
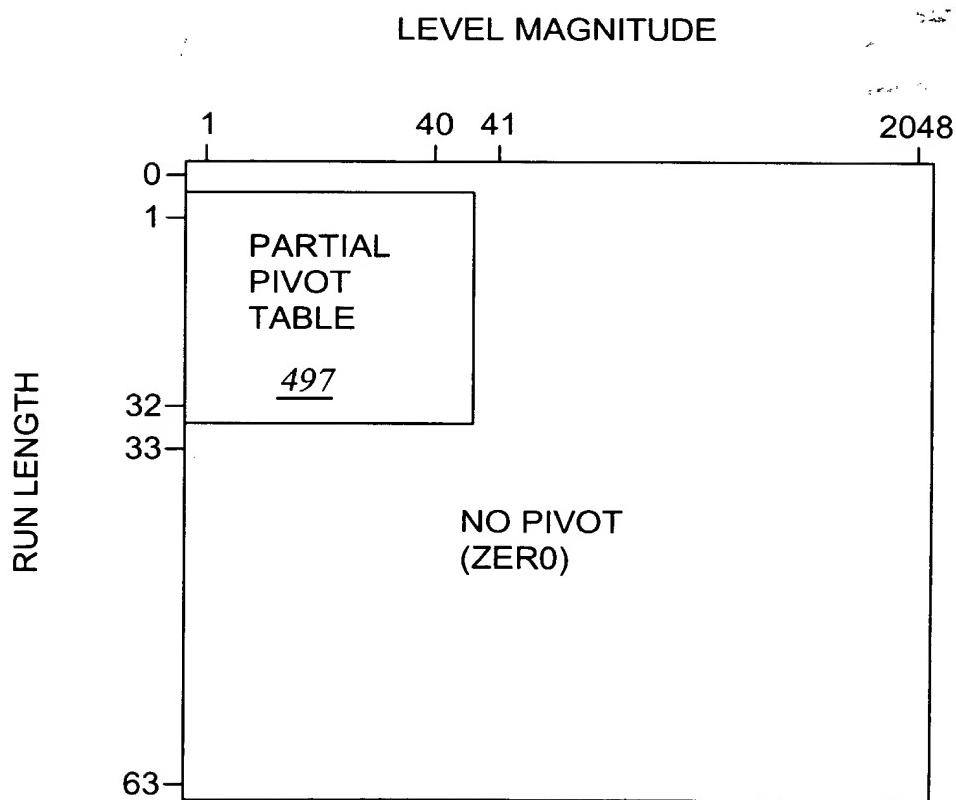


Fig. 35

*Fig. 36**Fig. 37*

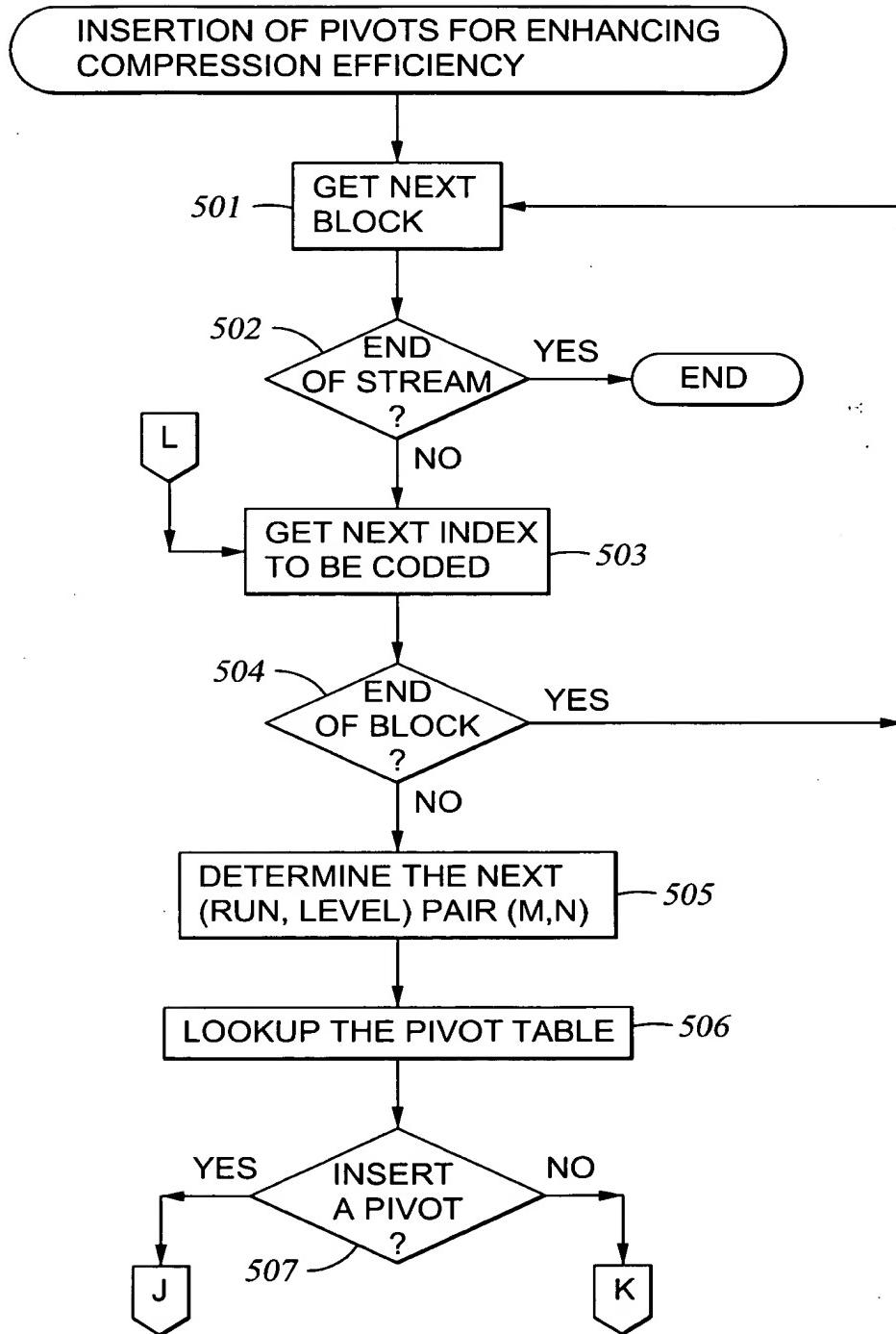


Fig. 38

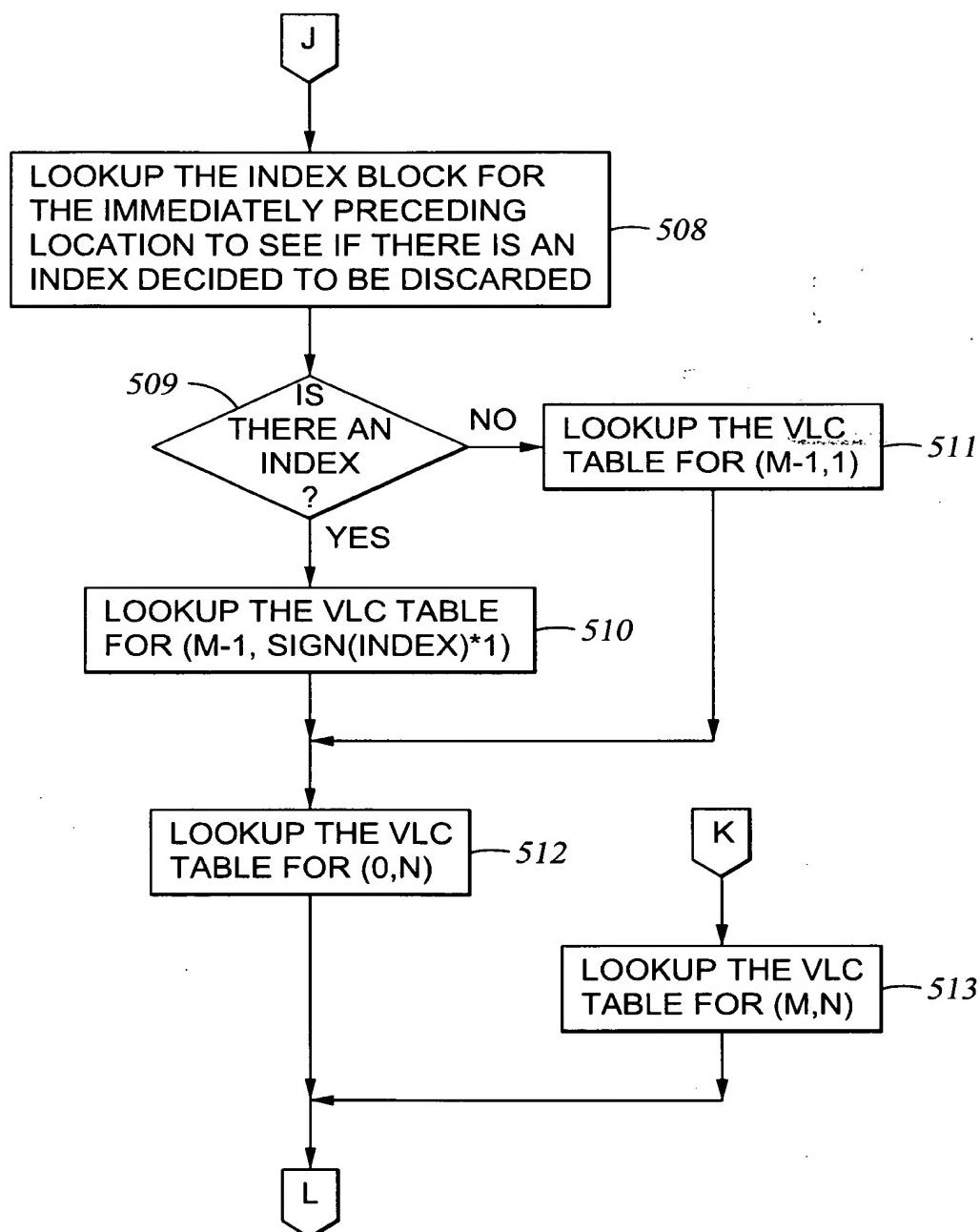


Fig. 39

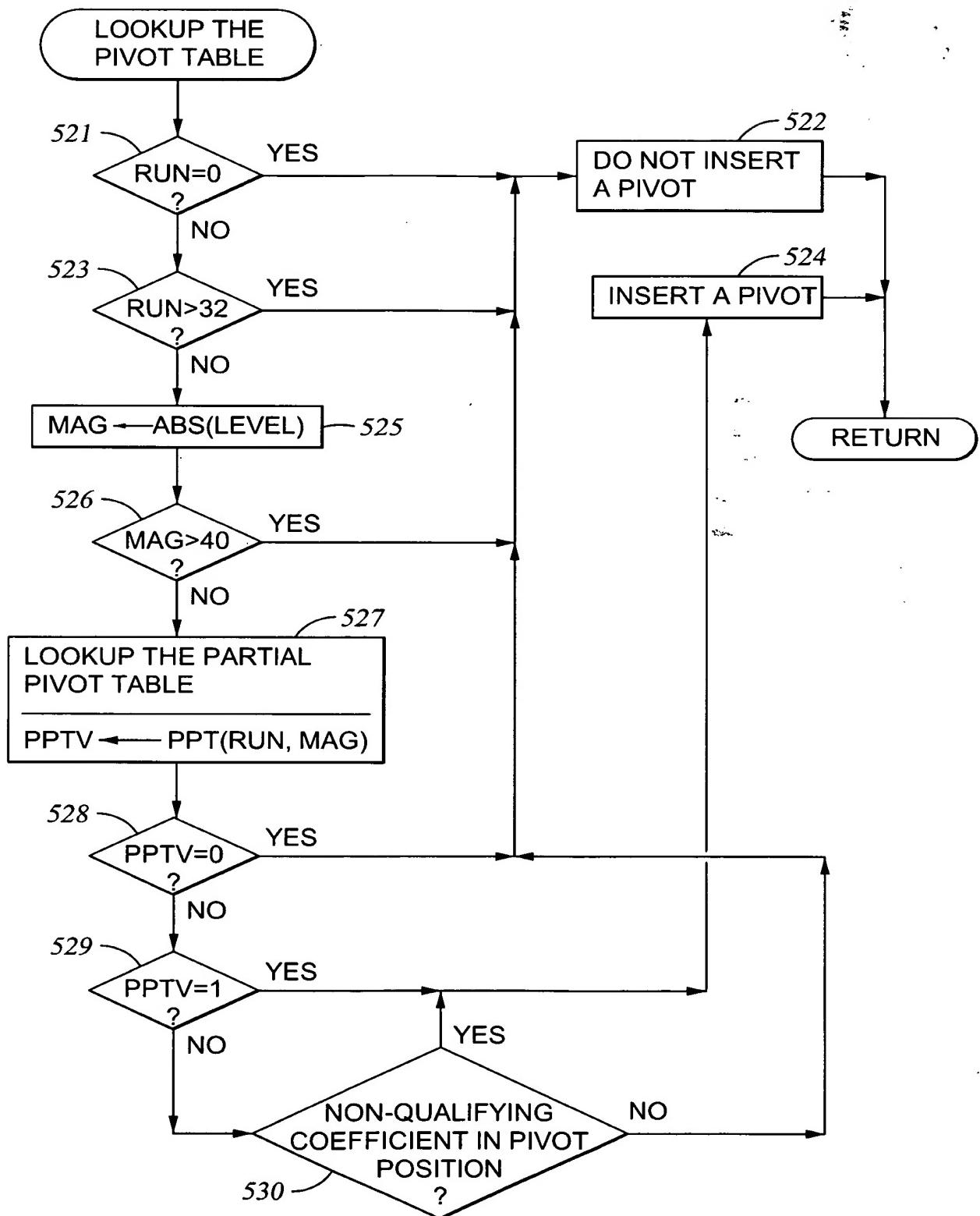


Fig. 40

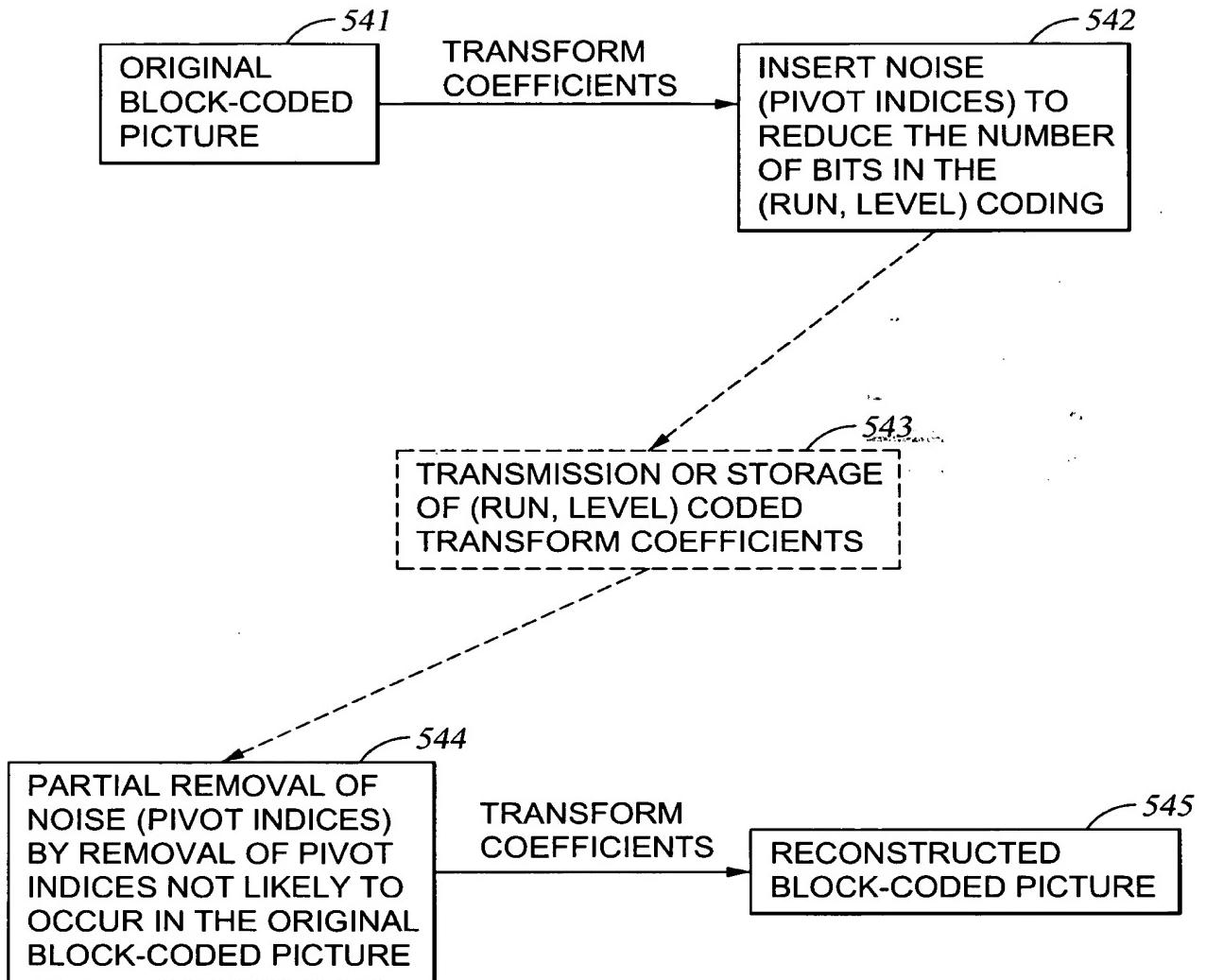


Fig. 41

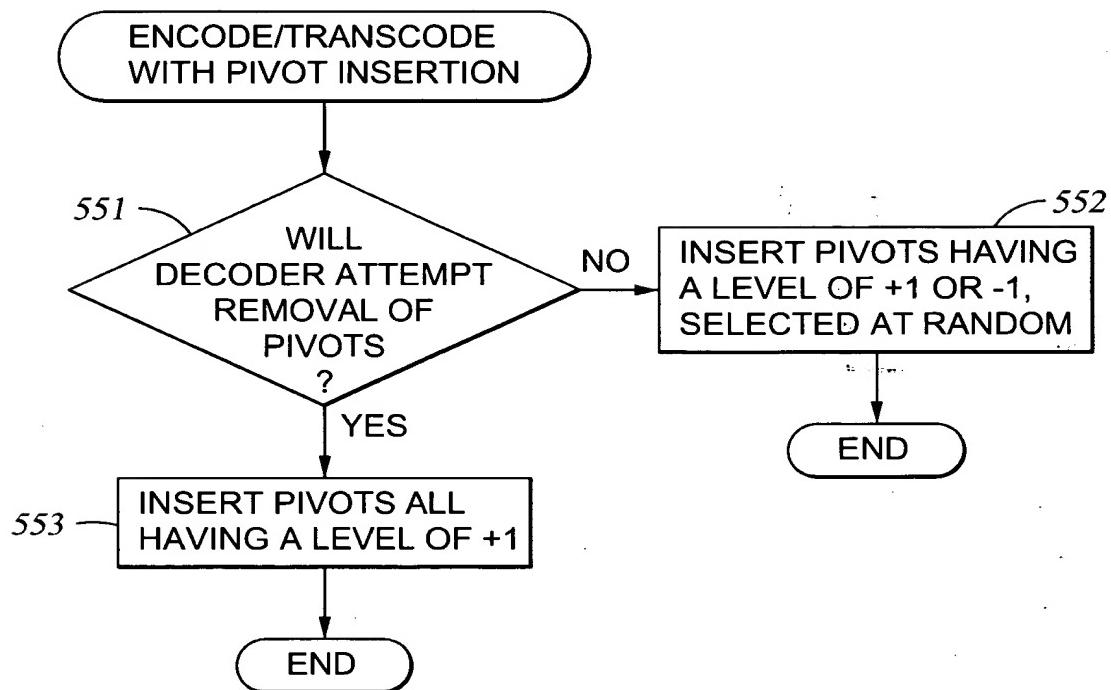


Fig. 42

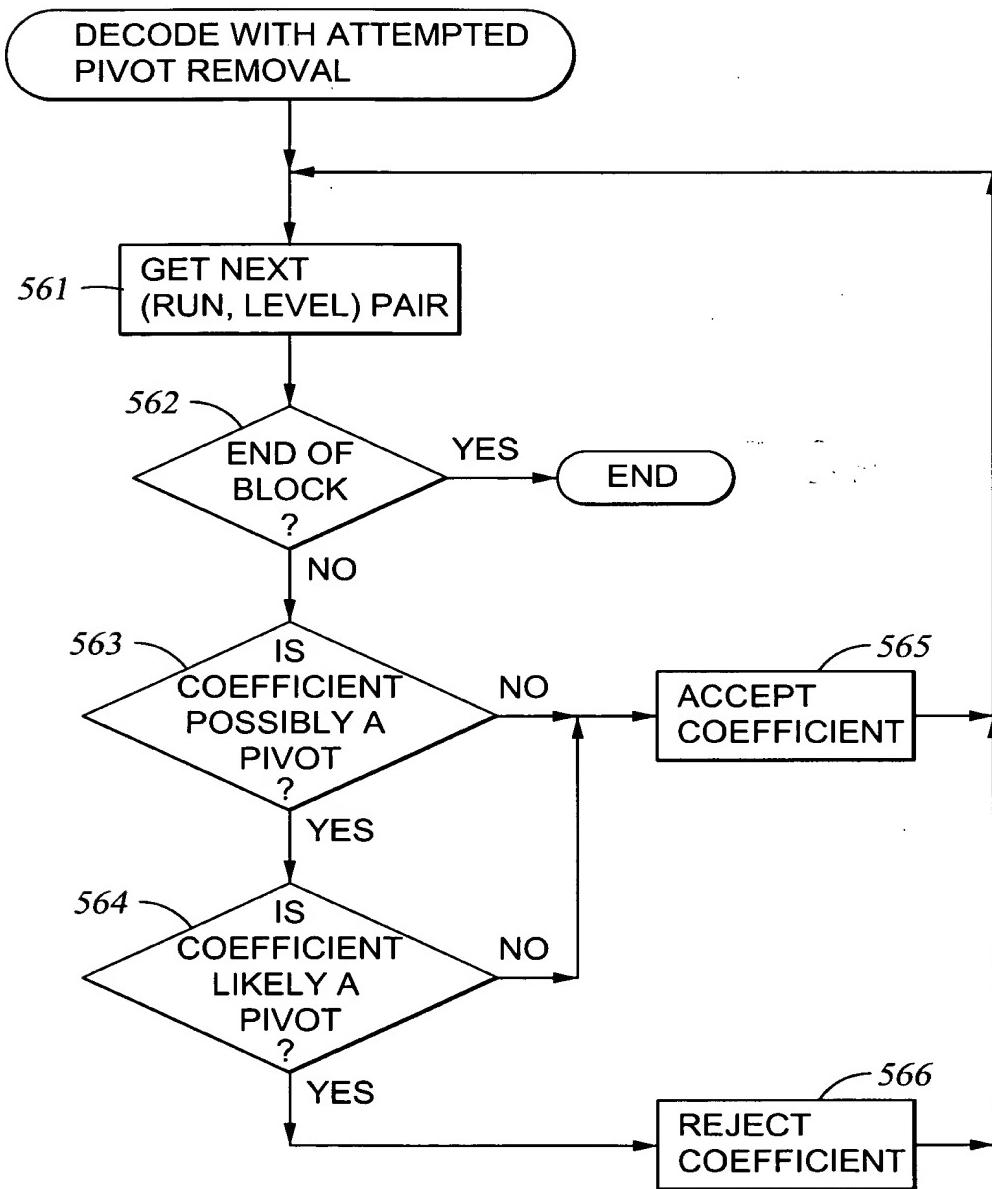


Fig. 43

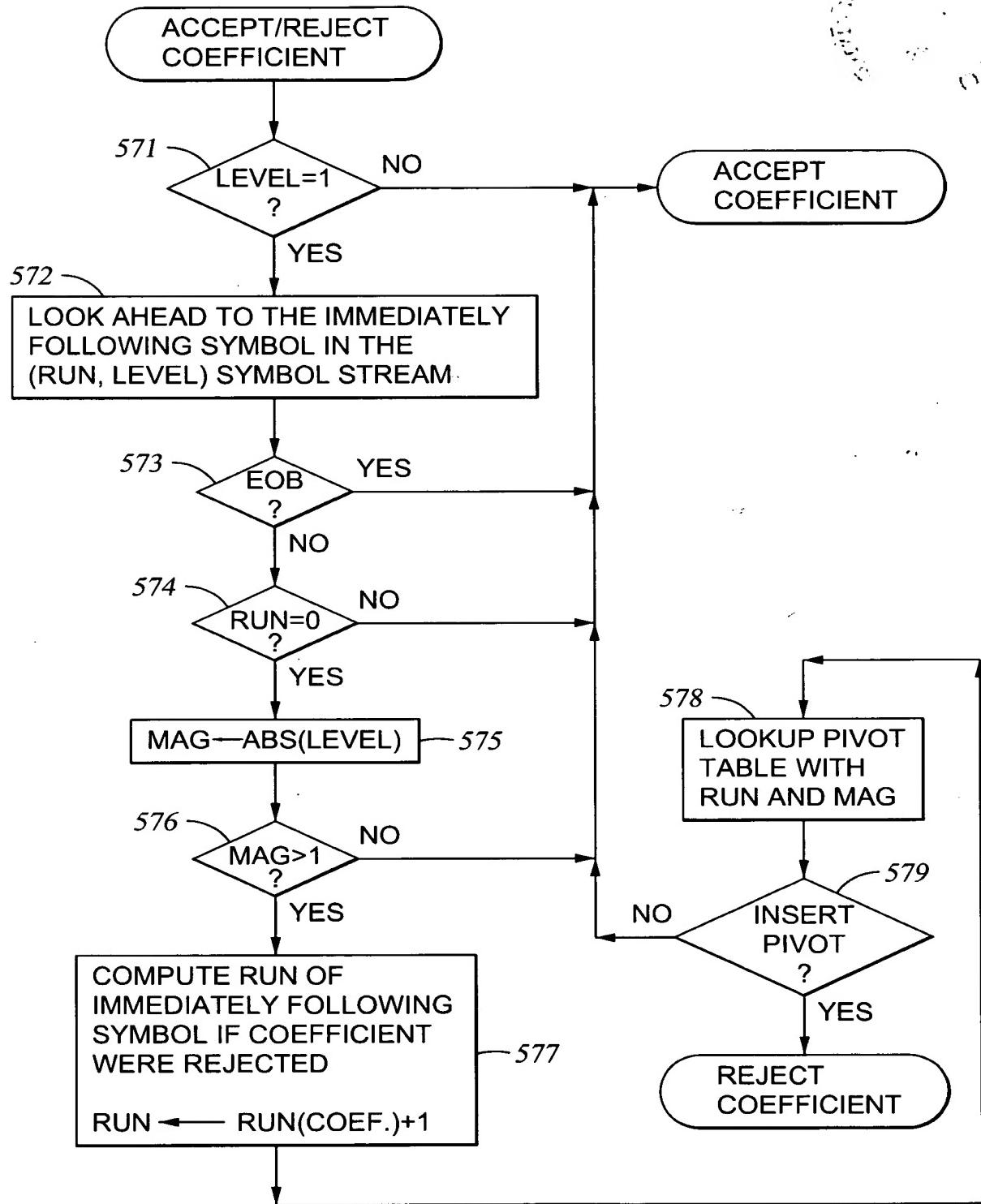


Fig. 44

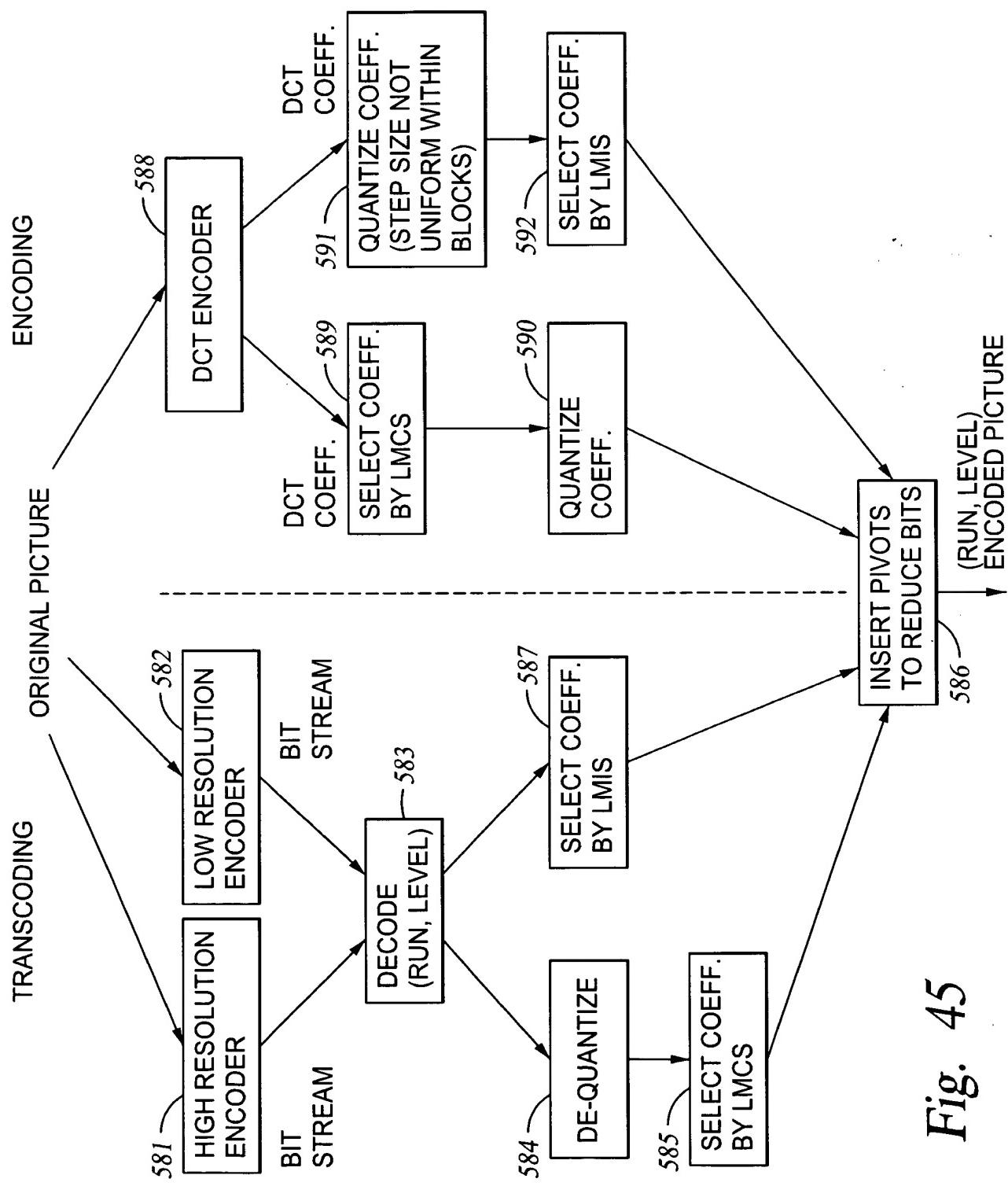


Fig. 45